

# **HITACHI**

Inspire the Next

## **PLASMA TELEVISION**

### **Operating Guide for P50X901 and**

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**U TRAVIS**

# Important Safety Instructions



## SAFETY POINTS YOU SHOULD KNOW ABOUT YOUR HITACHI PLASMA TELEVISION

Our reputation has been built on the quality, performance, and ease of service of **HITACHI** plasma televisions.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your **HITACHI** plasma television.

Please fill out your warranty card and mail it to **HITACHI**. This will enable **HITACHI** to notify you promptly in the improbable event that a safety problem should be discovered in your product model.

**Follow all warnings and instructions marked on this plasma television.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of a sufficient magnitude to constitute a risk of electric shock to a person.




The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

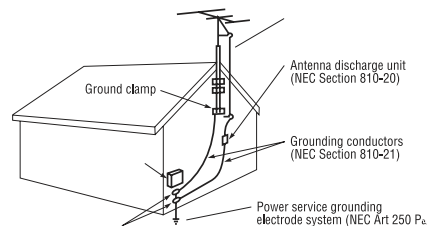
## READ BEFORE OPERATING EQUIPMENT

Follow all warnings and instructions marked on this plasma television.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding

prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.
12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Televisions are designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet which could cause the product to overturn resulting in product damage and/or personal injury.
16. Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
17. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
18. If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-44 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

# Important Safety Instructions



## Power source

This plasma television is designed to operate on 120 volts 60 Hz, AC current. Insert the power cord into a 120 volt 60 Hz outlet. The mains plug is used as the disconnect device and shall remain readily operable.

To prevent electric shock, do not use the plasma television's (polarized) plug with an extension cord, receptacle, or other outlet unless the blades and ground terminal can be fully inserted to prevent blade exposure.

Never connect the plasma television to 50 Hz, direct current, or anything other than the specified voltage.

## Caution



Never remove the back cover of the plasma television as this can expose you to very high voltages and other hazards. If the television does not operate properly, unplug the plasma television and call your authorized dealer or service center.

## Caution

Adjust only those controls that are covered in the instructions, as improper changes or modifications not expressly approved by **HITACHI** could void the user's warranty.

## Warning

- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The plasma television should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the television.
- This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

## Public viewing of copyrighted material

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited pay-per-view uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

## Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A CableCARD provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable company.

## Note

- There are no user serviceable parts inside the plasma television.
- Model and serial numbers are indicated on back side and right side of the plasma television.

## Prevention of screen damages

Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can be permanently imprinted onto your TV screen. Such "**SCREEN DAMAGES**" constitute misuse and are **NOT COVERED** by your **HITACHI Factory Warranty**.

If still images are left on the screen for more than 2.5 minutes, protection function will work automatically so that contrast reduces to minimize image retention on plasma display panel.

Please note that this is not a malfunction but it helps to minimize image retention.

The original contrast will restore after moving images are displayed for about 6 minutes. Original contrast can be restored quickly by turning power On/Off with remote control or power switch on unit.

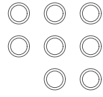
## Lead Notice

This product contains lead. Dispose of this product in accordance with applicable environmental laws. For product recycling and disposal information, contact your local government agency or **www.eRecycle.org** (in California), the Electronic Industries Alliance at **www.eiae.org** (in the US) or the Electronic Product Stewardship Canada at **www.epsc.ca** (in Canada). **FOR MORE INFORMATION, CALL 1-800-HITACHI.**

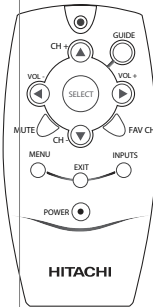
## Accessories

**Check to make sure you have the following accessories before disposing of the packing material.**

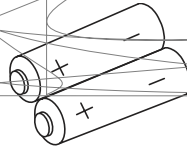
① Remote Control



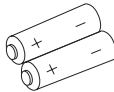
② Simple Remote



③ Two "AA" size, 1.5V batteries



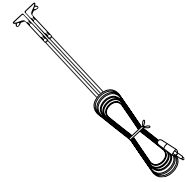
④ Two "AAA" size, 1.5V batteries



**For U.S. models:** For optional accessories, please visit [www.hitachi.us/tv](http://www.hitachi.us/tv)  
**CANADA only:** For optional accessories, please visit [www.hitachi.ca/tv](http://www.hitachi.ca/tv)

⑤ Power Cord

⑥ 2 IR Blaster Cables



⑦ Swivel Table Top Stand (901 model only)

⑧ Swivel Cable

⑨



**For U.S. models:** For optional accessories, please visit [www.hitachi.us/tv](http://www.hitachi.us/tv)  
**CANADA only:** For optional accessories, please visit [www.hitachi.ca/tv](http://www.hitachi.ca/tv)



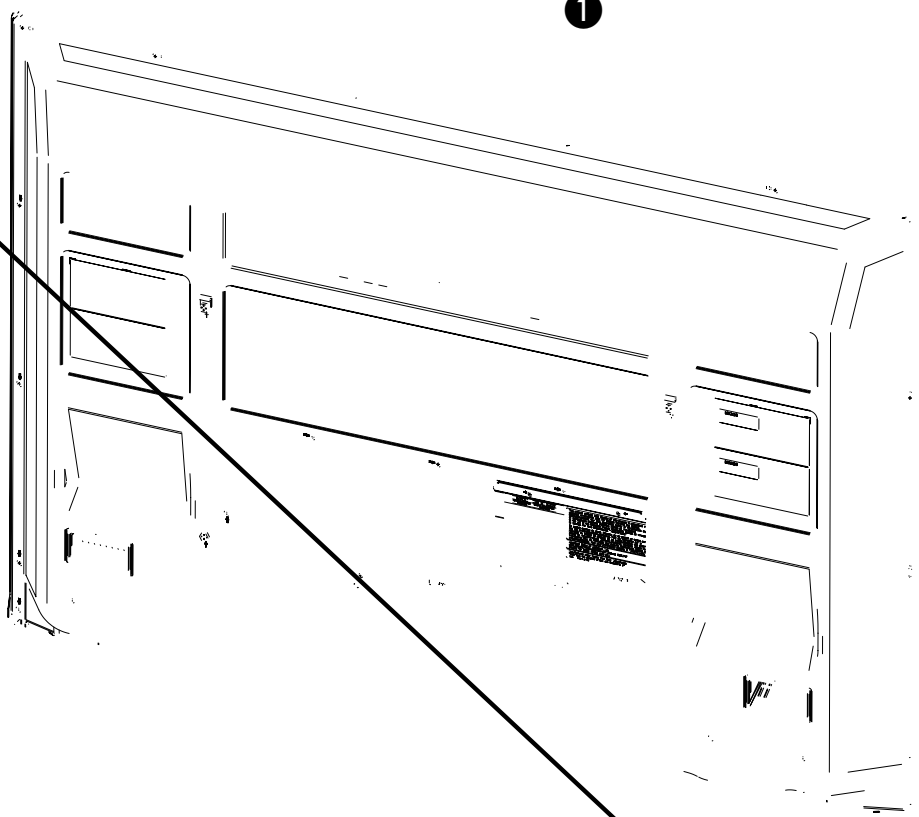


① Pass the AC cord through Clamp #1 and connect

②

The AC cord, power swivel cable and the signal cables can all be held together with Clamp #2 (included on the accessories bag).

①



ole of the base metal. the instructions below. Swivel



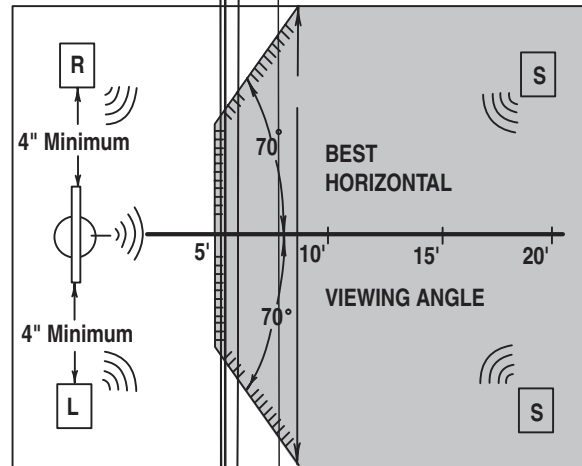
# How to set up your new HITACHI Plasma Television

## VIEWING

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.



## ANTENNA CONNECTIONS TO REAR JACK PANEL

### VHF (75-Ohm) antenna/CATV (Cable TV)

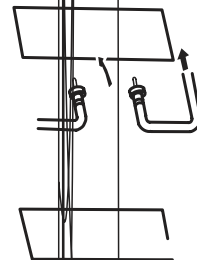
When using a 75-Ohm coaxial cable system, connect **CATV** coaxial cable to the AIR/CABLE (75-Ohm) terminal. Or if you have an antenna, connect the coaxial cable to the same AIR/CABLE terminal.

### VHF (300-Ohm) antenna/UHF antenna

When using a 300-Ohm twin lead from an outdoor antenna, connect the **VHF** or **UHF** antenna leads to screws of the **VHF** or **UHF** adapter. Plug the adapter into the antenna terminal on the TV.

### When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.



# How to set up your new HITACHI Plasma Television

## TV SETUP WIZARD

This television has a **TV Guide On Screen™** feature which has the ability to show you a customized list of the programs and channels available in your area. The information for the guide is broadcast on different channels in different areas.

Please use this **TV Setup Wizard** to help the **TV Guide On Screen™** find the channels with the information for your area.

The **TV Setup Wizard** automatically starts the first time the TV is turned on.

### Note:

1. If you see this screen when you turn on your TV for the first time and did not yet connect your external devices and cables to your TV, turn off your TV, unplug the power cord and connect your devices and cables according to the applicable connections in the **"First Time Use"** section of this Operating Guide.
2. After performing **TV Setup Wizard** operation, this page will not appear again. For updating and adding the channels available in your area refer to the **Auto Channel Scan** feature on page 57.

If this is the first time you have turned on your TV and the **TV Setup Wizard** appear on-screen, start by selecting **Yes** or **No** in the top portion of the TV Setup Wizard.

1. Use the **▶ CURSOR** to select **Yes** or **No** and press the **SELECT** button on the remote control.

Do you want the TV to find all of the channels for the TV Guide On Screen™?

☒ Yes ☐ No

If **Yes** is selected proceed to step 2.

If **No** is selected, press the **EXIT** button on the remote control and the **TV Guide ON Screen™ Setup** page will appear ( refer to page 54).

2. Press the **▼ CURSOR** to move to the next window to select the source.

Source: **◀ Air ▶**  
Please connect the antenna or cable  
To the input labeled "Air/Cable".

3. Press the **▶ CURSOR** to select **Air**, **Cable(1)** or **Cable(2)**.

4. Press the **▼ CURSOR** to move to the next window to start the Auto Channel Scan.

Auto Channel Scan : **Start**

5. Press the **SELECT** button on the remote control to begin scanning.

Air

Scanning Channel Number : 12

☐ Analog ☒ Digital 12-123

Scan time may take 10 to 20 minutes

**Cancel**

When Auto Channel Scan is done the **TV Guide On Screen™ Setup** page will appear (refer to page 54).

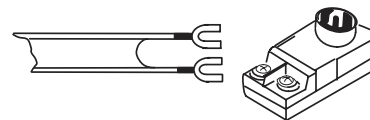


## Hook-up Cables and Connectors

Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.

### 300-Ohm Twin Lead Cable

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).



### Phono or RCA Cable

Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and front control panel.



### "F" Type 75-Ohm Coaxial Antenna

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.



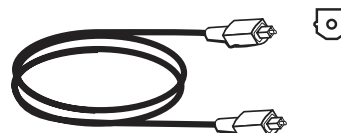
### S-Video (Super Video) Cable

This connector is used on camcorders, VCRs and laser-disc players with an S-Video feature in place of the standard video cable to produce a high quality picture.



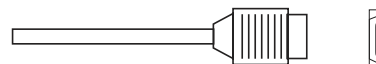
### Optical Cable

This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.



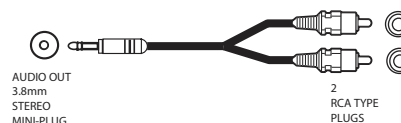
### HDMI Cable

This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an HDMI output connection to the TV's HDMI input.



### Stereo Cable (3.8mm plug to 3.5mm plug)

Used on all standard video and audio cable which connect to inputs and outputs located on the rear jack panel and front control panel.



### Power Swivel Cable (Provided) (P50X901 only)

This cable is used to connect the swivel stand to the rear panel of the Plasma Television.



### IR Blaster Cable (Provided)

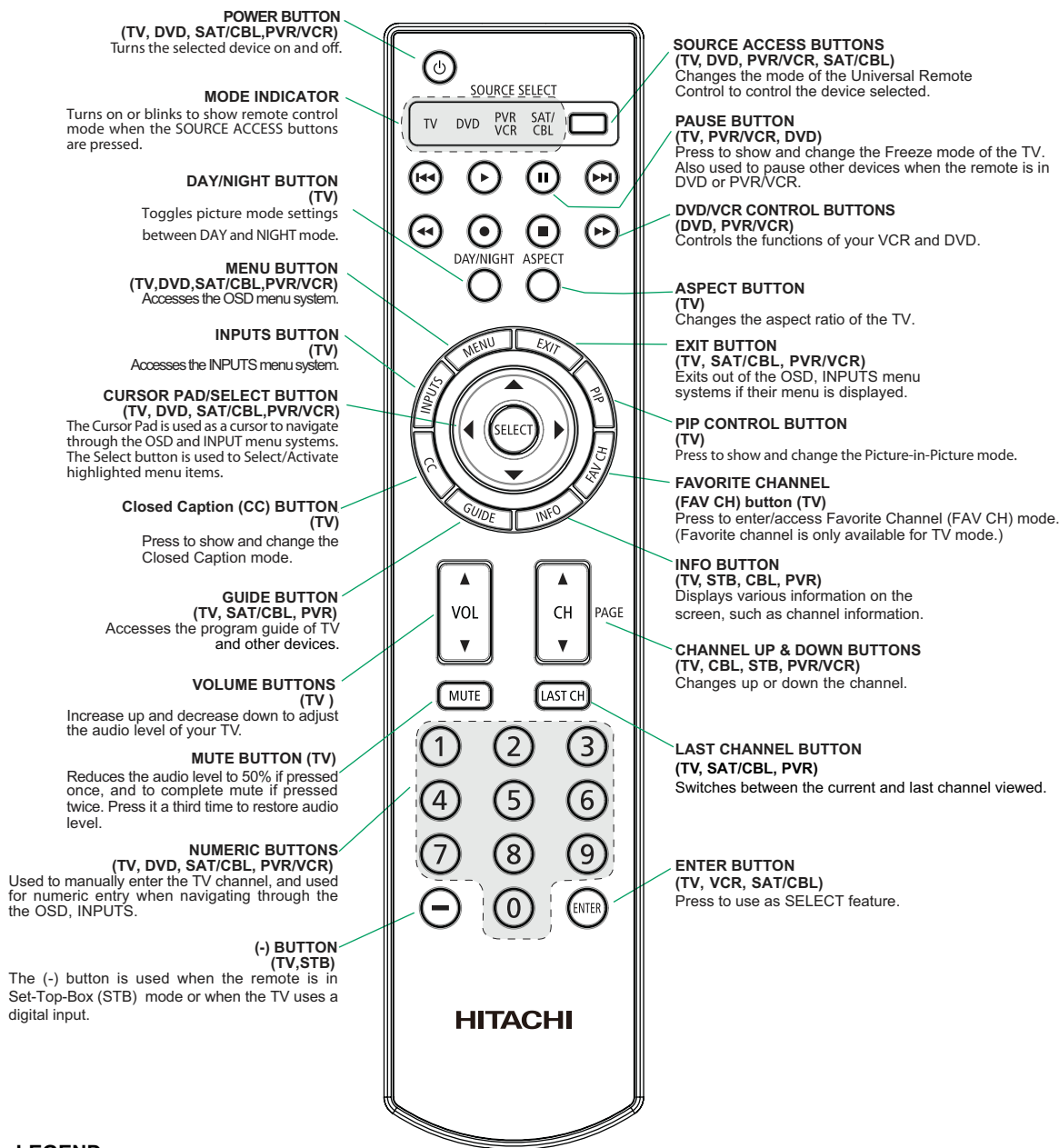
Connect the IR Blaster to the IR output of your Plasma Television when AV Net, IR Passthru or G-LINK™ feature are used. You must place the IR Blaster in front of the corresponding IR window of your cable box VCR, Set-Top-Box, or other supported equipment.



# Quick Reference Remote Control Buttons and Functions

In addition to controlling all of the functions on your HITACHI Plasma TV, the new remote control is designed to operate different types of devices, such as, DVD Players, CBL (Cable Boxes), set-top-boxes, satellite receivers, and VCRs. The remote control must be programmed to control the chosen device. Please see pages 26-43 for a complete description of all features and programming of the Remote Control.

First time use

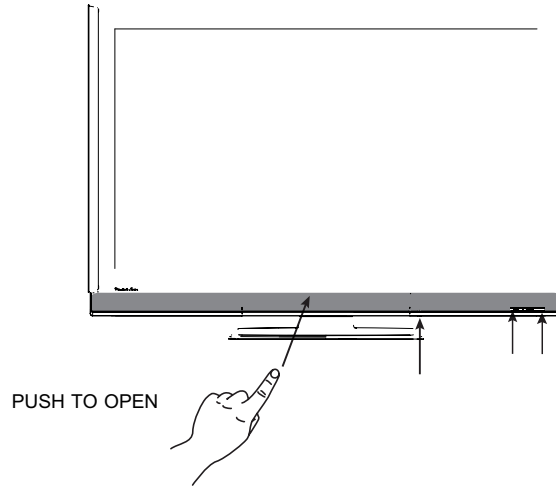


## LEGEND

<b>TV</b> – Television	<b>PVR</b> – Video Recorder/Player
<b>CBL</b> – Cable Box	<b>DVD</b> – Digital Video Disc Player
<b>SAT</b> – Satellite	<b>VCR</b> – Videocassete Recorder

- NOTES:** 1. The TV's remote control sensor is located on the right bottom portion of the TV screen. To control TV functions, please point the remote control directly at the remote control sensor for best results.
2. VCR precode is included in the PVR mode.

FRONT VIEW (P50X901)



For P60X901 model this is not Main Power button,



## Front Panel Controls

### ⑧ UPGRADE CARD

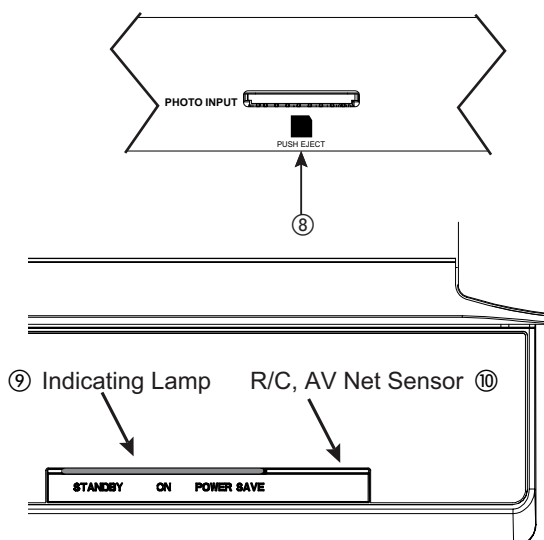
This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

### ⑧ SD CARD PHOTO INPUT

To view digital still pictures, please insert a SD card into the card slot with pictures taken on a Digital Camera, to view them on the TV screen.

### ⑨ POWER light indicator

To turn the TV ON, press the main power switch located on the lower right side of the TV. A red stand-by indicator lamp located on the lower right corner of the front bezel will illuminate. The Plasma TV is now ready for remote ON/OFF operation.



Indicating Lamp	Power Status	Operating
Off *	OFF.	When the main power switch is set to Off.
Lights Red	OFF. (Stand-by)	When the main power switch on the TV is ON.
Lights Blue	On	TV POWER is ON ; picture is shown.
Lights Orange	Off (Power Saving)	TV POWER is ON with no signal input except antenna (no sync. signal).
Blinking Blue	On	When TV receives the IR signal from R/C.

\* The Main Power switch applies only for P50X901 model ; so for the P60X901 the condition for the Indicating Lamp when is OFF , it means that the AC power cord is unplugged.

### ⑩ REMOTE CONTROL sensor

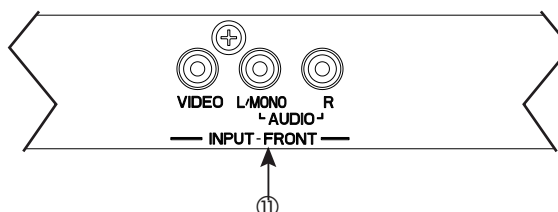
Point your remote at this area when selecting channels, adjusting volume, etc.

### ⑩ LEARNING AV NET sensor

Point your equipment's remote control at this area while using the AV NET Learning Wizard.

### ⑪ INPUT-FRONT JACKS

INPUT-FRONT provide composite Video jacks for connecting equipment with this capability, such as a DVD player or Camcorders.



- NOTES:**
1. Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when INPUT : 1, 2, 3, Front or HDMI : 1, 2, Front is selected. Check the Power Light to make sure the TV is turned off or in Stand-by mode (lights red) when not in use.
  2. Remote Control cannot turn ON/OFF the "MAIN POWER" of the TV.



# Rear Panel Connections

(POD) module).

Digital Cable Signal



Manufactured  
Dolby and the double-D  
Dolby Laboratories.



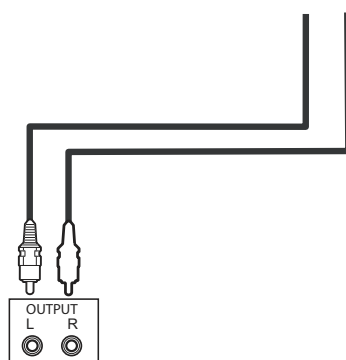
RS232C

S-VIDEO VIDEO

HDMI 1

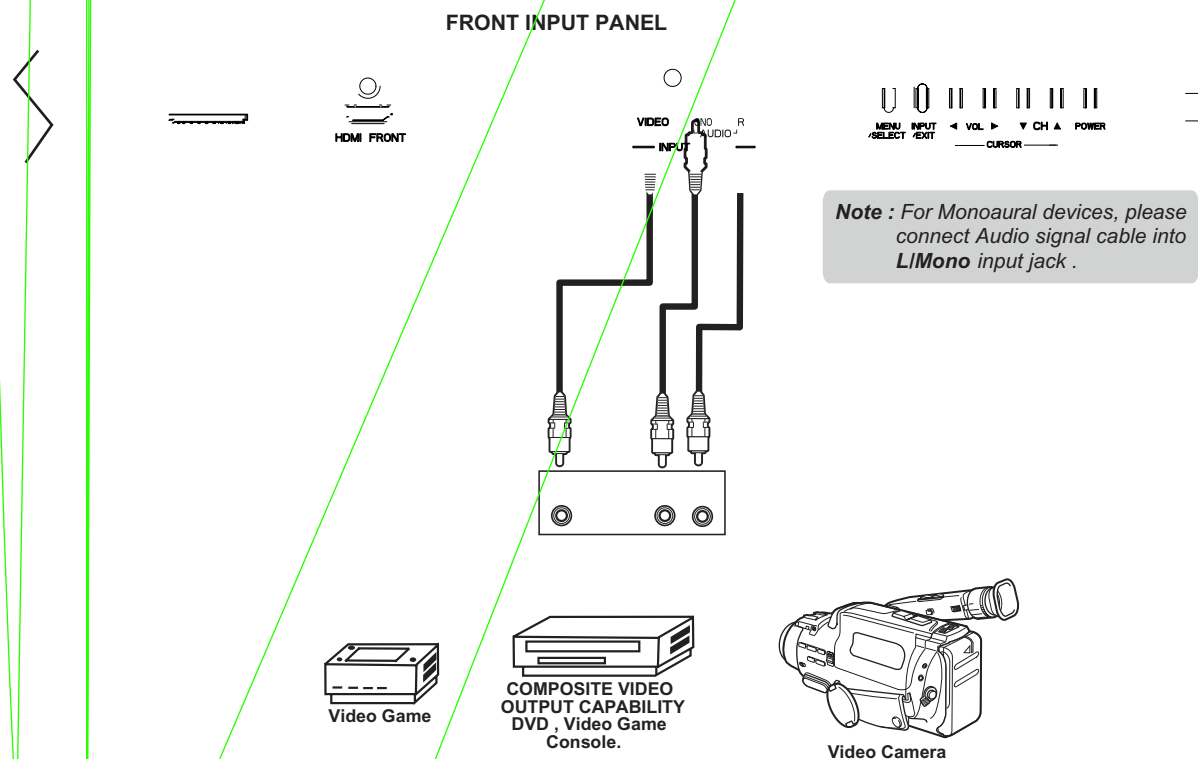
HDMI 2

The FRONT panel jacks are provided as a convenience to allow you to easily connect HDMI or DVI signals from a DVD, Set Top Box , Video Game as shown in the following examples (When connecting DVI signal it will

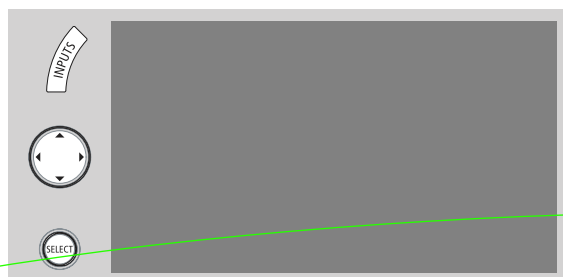


## Connecting External Video Sources

The FRONT panel jacks are provided as a convenience to allow you to easily connect a camcorder , DVD, Video Game and a VCR as shown in the following examples:

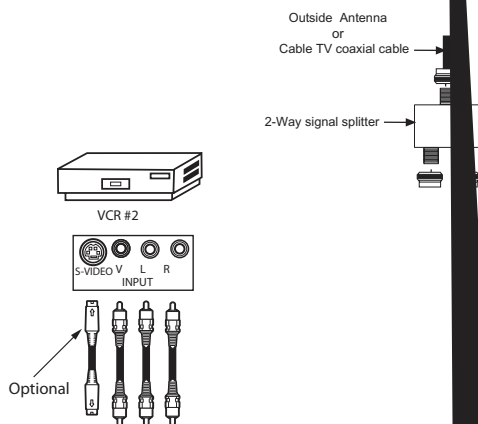


**NOTE:** 1. Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal.



# Rear Panel Connections

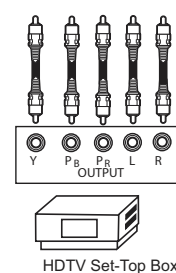
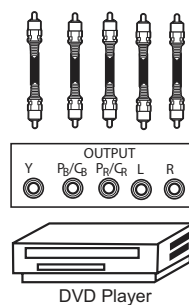
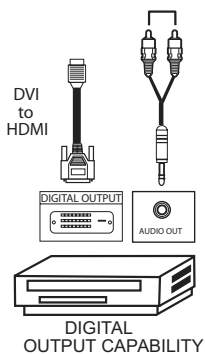
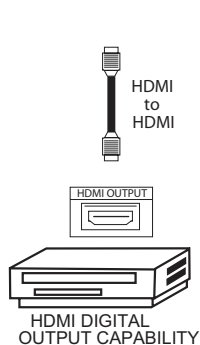
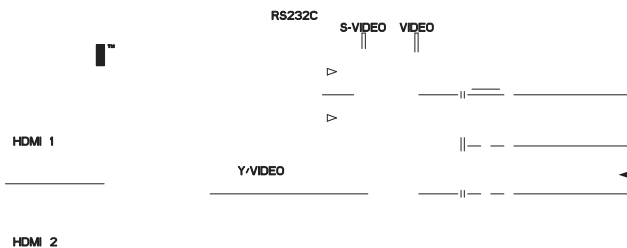
First time use



locates on  
www.ats.org (USA) or  
www.rpcc.ca/Canada

Apparatus Claims of  
4,631,830; 4,677,218; 4,619,098;  
licensed for limited viewing

Manufactured under license  
"Dolby" and the double-D symbol  
Dolby Laboratories.



**NOTE:** Cables are optional, except when specified.

## Tips on Rear Panel Connections

- S-VIDEO, Y-PbPr, or HDMI connections are provided for high performance laserdisc players, VCRs etc. that have this feature. Use these connections in place of the standard video connection if your device has this feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on (L/(MONO)) the Rear Panel.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on page 18). Refer to your VCR operating guide for more information on line input-output connections.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-PbPr (Input 2 & 3) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's P<sub>B</sub> input and the components R-Y output to the TV's P<sub>R</sub> input.
- Your component outputs may be labeled Y-C<sub>B</sub>C<sub>R</sub>. In this case, connect the components C<sub>B</sub> output to the TV's P<sub>B</sub> input and the components C<sub>R</sub> output to the TV's P<sub>R</sub> input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-PbPr inputs. (See page 46).
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PbPr and HDMI input jacks.
- Input HDMI 1, HDMI 2 or HDMI FRONT can accept HDMI signal.
- S-VIDEO monitor output may be used for recording only when the input is of S-VIDEO type.
- When using a HDMI input from a Set-Top-Box, it is recommended to use a 1080p, 1080i or 720p input signal.
- When HDMI input a 1080p signal, it is recommended that the length of the cable should be less than 5 meters.

### INSTALLATION RECOMMENDATION:

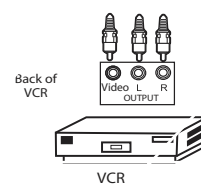
1. Video signals fed through a VCR may be affected by copyright protection systems and the picture will be distorted on the television.
2. Connecting the television directly to the Audio /Video output of a Set-Top-Box will assure a more normal picture.

Figure 1

Figure 1  
Potentiometer  
4,807,085 and  
used only.  
from Dolby  
systems are trademarks of

AIR

Figure 1



In the U.S.  
In the U.S.  
In Canada  
Ca. product content is  
subject to change

at

AIR/CABLE

Figure 1  
Potentiometer  
4,807,085 and  
used only.  
from Dolby  
systems are trademarks of



# External Video Sources

## EXTERNAL SOURCE WITH HDMI OR HDMI 1, HDMI 2 OR HDMI FRONT

DVI to HDMI connection of the HDTV set top box or the HDMI input as shown below.

Connect the cable from the HDTV set top box or DVD VIDEO/R) jack as shown on

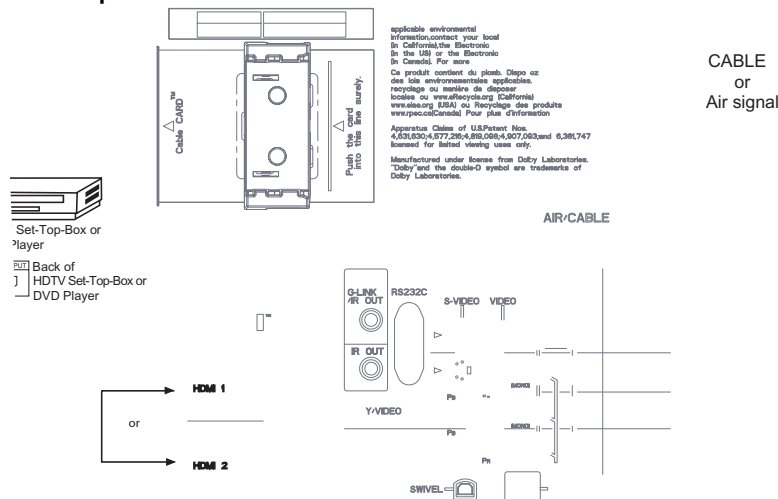
Connect the cable from the HDTV set top box or DVD (AUDIO/L) jack as shown below.

Then, select HDMI 1, 2 or program from the HDTV D player.

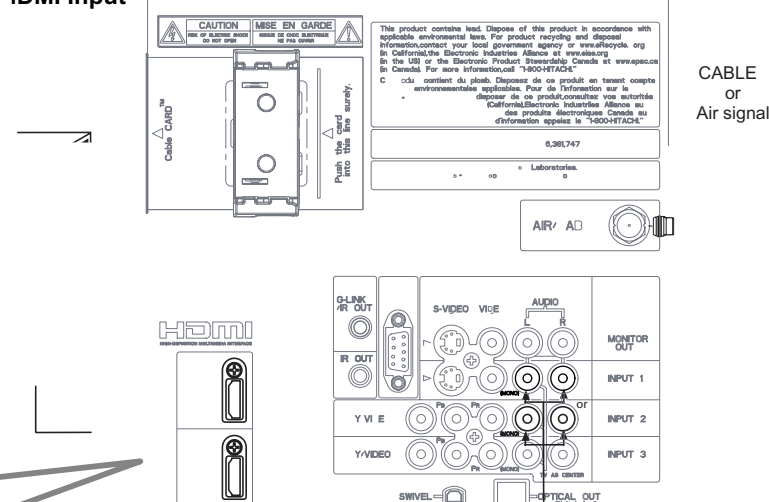
from the INPUTS menu to the input viewed.

- NOTE:**
1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
  2. The HDMI input on HDMI 1, 2 and FRONT contains the copy protection system called High-bandwidth Digital Content Protection (HDCP). HDCP is a cryptographic system that encrypts video signals when using HDMI connections to prevent illegal copying of video contents.
  3. HDMI is not a "NETWORK" technology. It establishes a one-way point-to-point connection for delivery of uncompressed video to a display.
  4. The connected digital output device controls the HDMI interface so proper set-up of device user settings determines final video appearance.
  5. When using a DVI to HDMI cable, connect the Audio Out L and R cables at the same INPUT (1, 2 or Front) as your HDMI INPUT(1, 2 or Front). (For FRONT INPUT see page 16 for reference).

## HDMI input



## HDMI Input



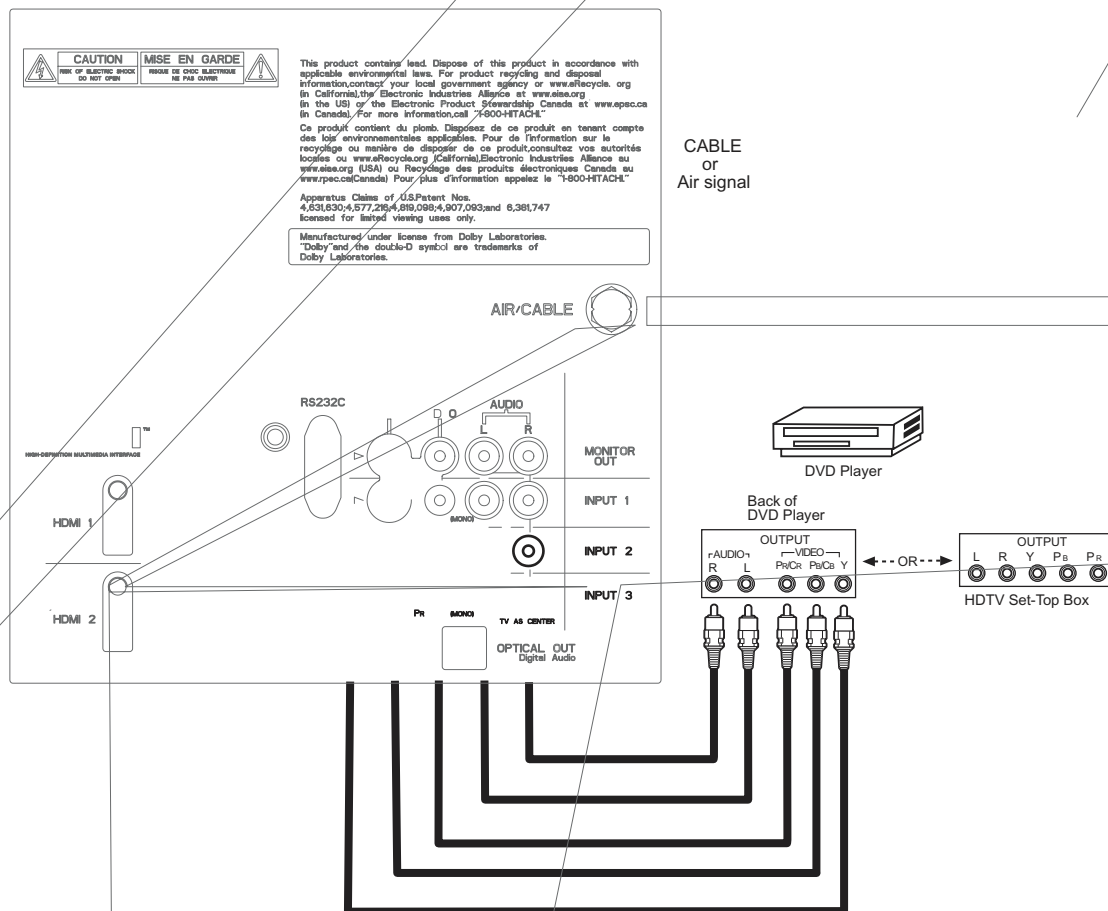
# Connecting External Audio/Video Devices

## CONNECTING A COMPONENT AND STEREO AUDIO SOURCE TO INPUT 2 or 3: Y-PbPr.

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the Rear panel below.
2. Connect the cable from the P<sub>B</sub>/C<sub>B</sub> OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>B</sub>) jack.
3. Connect the cable from the P<sub>R</sub>/C<sub>R</sub> OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P<sub>R</sub>) jack.
4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
6. Press the INPUTS button, then select INPUT 2 or 3 from the INPUTS menu to view the program from the Laserdisc/DVD player or HDTV set top box.
7. Select CABLE or AIR to return to the last channel tuned.

**NOTE:** 1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

2. See page 19 for tips on REAR PANEL CONNECTIONS.



## CONNECTING A VIDEO AND MONAURAL AUDIO SOURCE TO INPUT 1 ~ FRONT INPUT

1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the Rear Panel on the right.
2. Connect the cable from the AUDIO OUT of the VCR or the laserdisc player to the INPUT (MONO)/L(AUDIO) jack.
3. Press the INPUTS button, then select INPUT 1 2,3 or Front from the INPUTS menu to view the program from the VCR or the laserdisc player.
4. Select CABLE or AIR from the INPUTS menu to return to the previous channel.

## CONNECTING AN EXTERNAL AUDIO AMPLIFIER

To monitor the audio level of the Plasma TV to an external audio amplifier, connect the system as shown on the right. The "OPTICAL OUT" from the Rear Panel is a fixed output. The Volume of the amplifier is controlled by the amplifier, not by the Plasma Television. The OPTICAL OUT terminal outputs all audio sources with Optical IN capability.

1. Connect an optical cable from the Optical out to the Optical input of a separate Stereo System Amplifier as shown on the Rear Panel on the right.

## CONNECTING MONITOR OUT

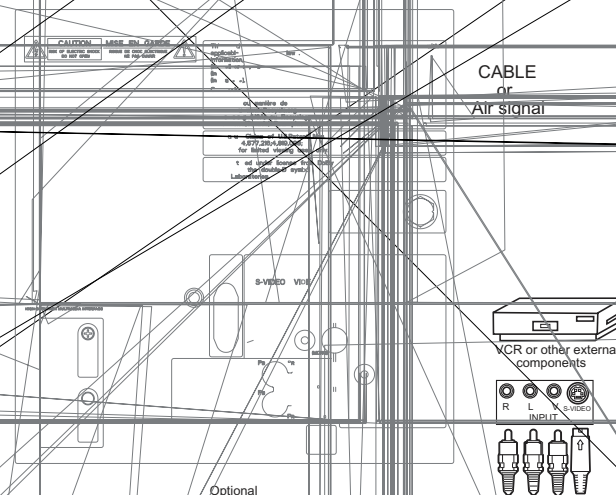
The MONITOR OUT terminal outputs video and audio of CABLE/AIR and INPUTS 1, 2, 3 and Front. It does not output component and HDMI video.

1. **Connecting S-Video:**  
Connect the cable from the S-VIDEO OUT of the Rear Panel to the INPUT (S-VIDEO) jack, of the VCR or Laserdisc player.

### Connecting Video:

Connect the cable from the VIDEO INPUT of the VCR or the laserdisc player to the VIDEO out jack on the TV Rear Panel.

2. Connect the cable from the AUDIO IN R of the VCR or the laserdisc player to the OUTPUT (AUDIO/R) jack on the TV Rear Panel.
3. Connect the cable from the AUDIO IN L of the VCR or the laserdisc player to the OUTPUT (AUDIO/L) jack on the TV Rear Panel.



**NOTE:** When making video connections, connect S-Video only or Video only. If both are connected, S-Video takes priority.

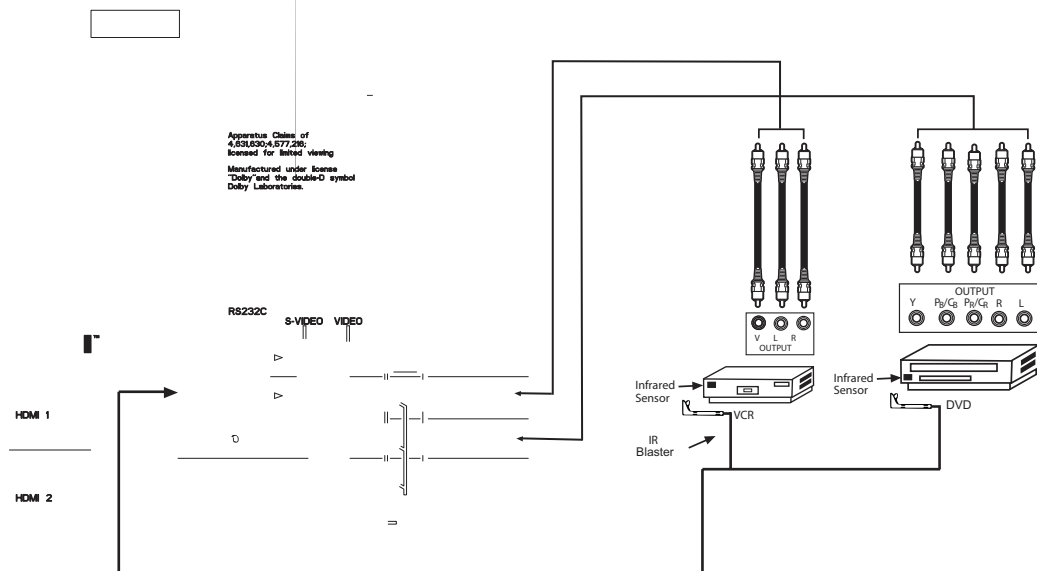
## Connecting External Video Sources

Your HITACHI Plasma Television is equipped with an AV Net feature. This feature helps to control your external Audio/Video equipment (VCR, Set Top Box, DVD, etc.). Once this is setup, it allows your IR Blaster cable to control your equipment using your HITACHI Plasma TV Remote Control. You can use your HITACHI remote control to control the Audio/Video equipment command without the equipment's remote control.

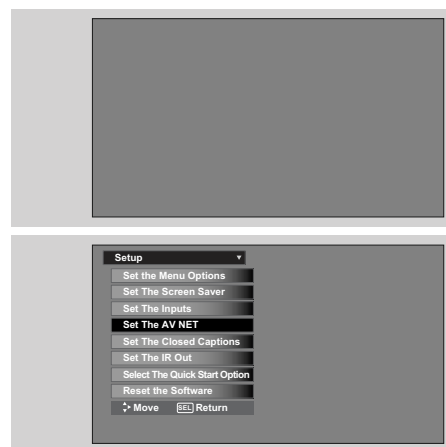
The Plasma Television Rear Panel has 2 IR Out jacks. Each IR Blaster cable can connect up to 2 external Audio/Video components. Therefore, you can connect the Plasma Television with up to four components. Please see the following example of an AV Net setup between your Hitachi Plasma Television and external Audio/Video equipment (VCR and DVD Player).

### CONNECTING EXTERNAL AUDIO/VIDEO COMPONENTS TO IR OUT FOR AV NET

1. Connect your external Audio/Video components to the Rear Panel shown below.
2. Connect the IR Blaster cable to the IR OUT terminal of the Rear Panel.
3. Place the IR Blaster in front of the infrared sensor of the external components you wish to control.



4. **ACCESS THE AV NET SETUP WIZARD**  
Press the MENU button.
5. Use the CURSOR PAD ▼ or channel scroll down to highlight SETUP.
6. Press the SELECT or CURSOR PAD ► button to select.
7. Use the CURSOR PAD ▼ or channel scroll to highlight the SET AV NET features then press the SELECT button.
8. Follow the Setup procedure on pages 69-76.



**NOTE:**

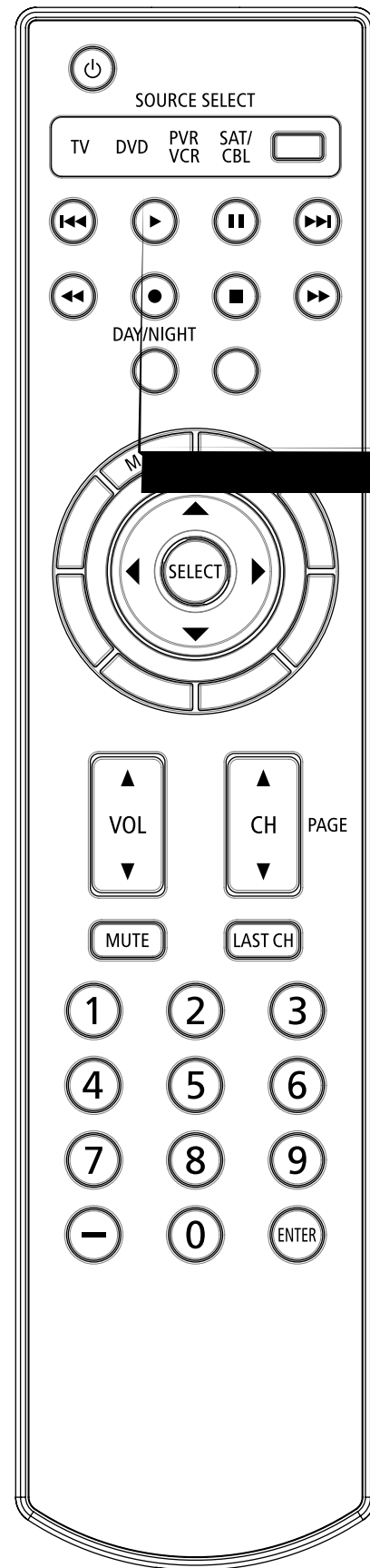
1. The Rear Panel has two IR OUT terminals which can control up to a total of four external components.
2. The IR Blaster must be placed in front of the external components infrared sensor for the AV Net to work. Double-sided mounting tape may be used to hold the IR Blaster in place.
3. The correct codes must be chosen for each of the Audio/Video components for the AV Net to function properly.

Your HITACHI Plasma Television is equipped with a G-LINK™ feature. This connection is necessary for the TV Guide On Screen™ system to enable VCR recording features. Once you setup the G-LINK™ (IR Blaster) connector, then you can use your HITACHI Plasma TV Remote Control and TV Guide On Screen™ system to control your VCR recording features.

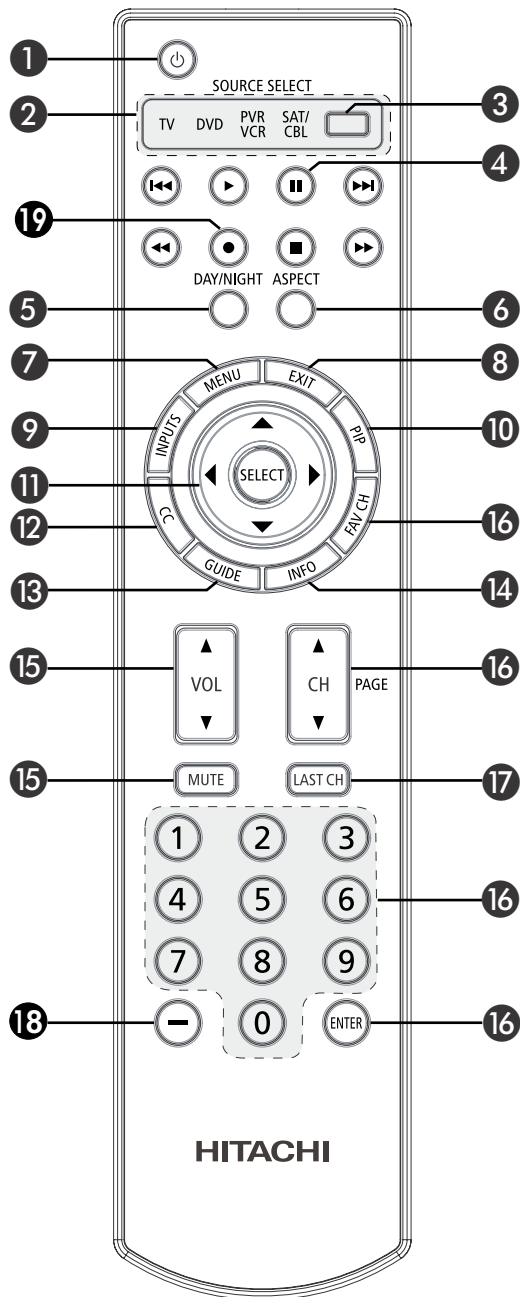
## CONNECTING THE VCR TO G-LINK™ FOR TV Guide On Screen™ SYSTEM

- 
- des file  
recycle ou réutiliser  
localiser ou  
www.elec.org (SRA) ou  
www.7pec.ca(Canada)
- Appareils Châssis de U.S. Patent  
4,938,830-4,977,226-4,989,086  
licensed for limited viewing uses only.  
Manufactured under license from Dolby  
Dolby and the double-D symbol  
Dolby Laboratories.
- RS232C
- S-VIDEO VIDEO
- Y-VIDEO
- Y-VIDEO
- AUDIO
- Pb Pt
- V L R
- OUTPUT
- Infrared Sensor
- IR Blaster
- VCR
- HDMI 1
- HDMI 2

2. G-LINK™ connections are available on both IR OUT terminals.



# How to Use the Remote to Control Your TV



## 1 POWER button

Press this button to turn the TV set on or off when the remote is in TV mode. (See page 26 for instructions on how to set the remote control to TV mode).

## 2 MODE Indicator

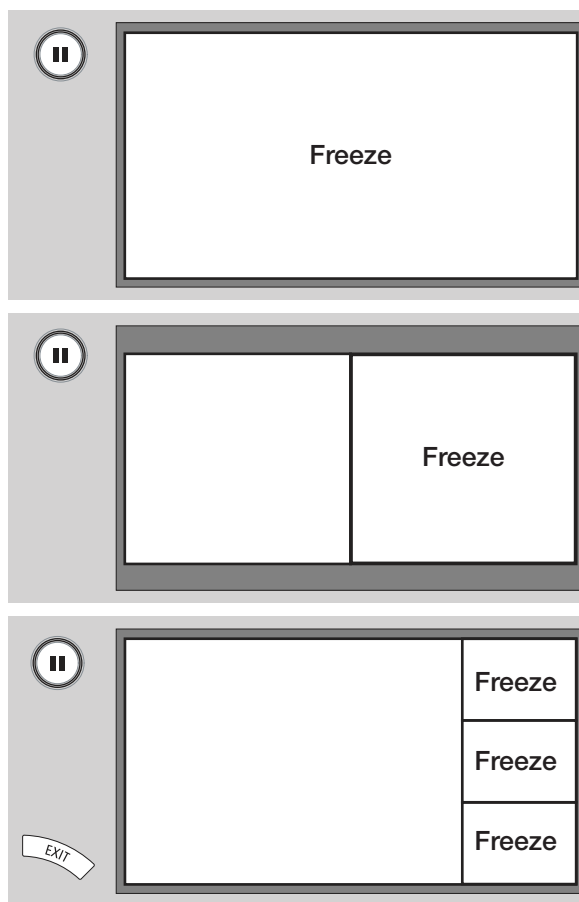
Turns on or blinks three times to show remote control mode.

## 3 SOURCE SELECT button

Press this button to select remote control mode.

## 4 PAUSE button

Press the PAUSE button to freeze the picture. Press the EXIT button to return the picture to motion. Press the PAUSE button repeatedly to cycle through the three different freeze modes (see page 35).

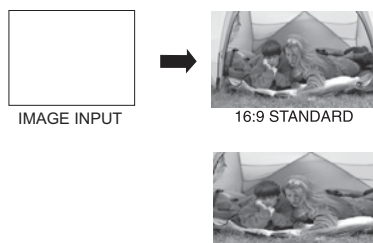
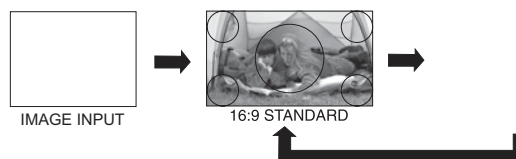
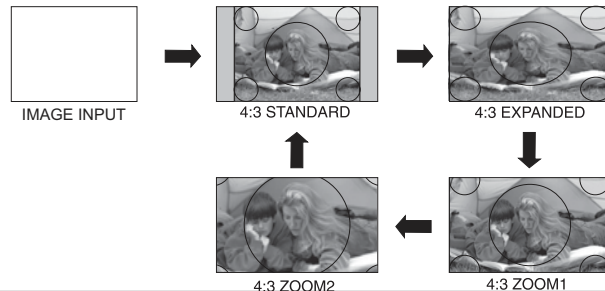
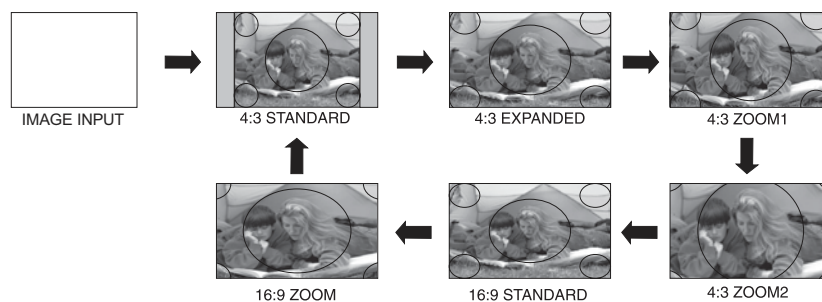


## 5 DAY/NIGHT button

Press this button to toggle between Day (Normal), Day (Dynamic) and Night picture mode settings. Select **DAY** for day time viewing with more brightness and contrast to compete with room light. Select **NIGHT** for night time viewing with less brightness and contrast for a more detailed picture (see page 46 for settings changes).

**NOTE:** For automatic **DAY/NIGHT** picture mode settings, see page 66.

# How to Use the Remote to Control Your TV





# How to Use the Remote to Control Your TV

## 7 MENU button

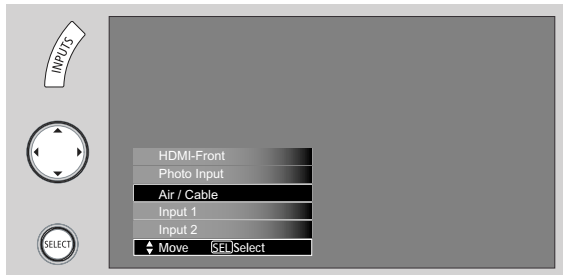
The **MENU** button will start the On-Screen Display.

## 8 EXIT button

This button will exit all On-Screen Displays.

## 9 INPUTS button

When the remote control is in TV mode, press this button to access the **INPUTS** menu. Use the **CURSOR** and **SELECT** buttons to scroll and select the inputs that are being used. Pressing the **INPUTS** button repeatedly will also cycle through the Inputs menu items. Then press the **SELECT** button to select.



<b>INPUT 1</b>	Select to choose INPUT 1.
<b>INPUT 2</b>	Select to choose INPUT 2.
<b>INPUT 3</b>	Select to choose INPUT 3.
<b>INPUT-FRONT</b>	Select to choose FRONT INPUT .
<b>HDMI 1</b>	Select to choose HDMI 1 INPUT.
<b>HDMI 2</b>	Select to choose HDMI 2 INPUT.
<b>HDMI- FRONT</b>	Select to choose FRONT HDMI INPUT.
<b>PHOTO INPUT</b>	Select to access your pictures from a digital camera, MMC/SD Flash memory or memory card connected to the Photo Input in the front panel of the Plasma TV (see pages 30-31).
<b>AIR/CABLE</b>	Select between Air or Cable signal.

## 10 PICTURE-IN-PICTURE button

See separate section on pages 33-34 for a more detail description.

## 11 CURSOR buttons/SELECT button

All the On-Screen Display features can be set or adjusted by using the **CURSOR** buttons and the **SELECT** button, except for numeric entries. Press the **CURSOR** buttons toward desired direction and press the **SELECT** button to select.

## 12 CLOSED CAPTIONS (CC) button

Use this button to display the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen when available. Your local TV program guide denotes these programs as or .

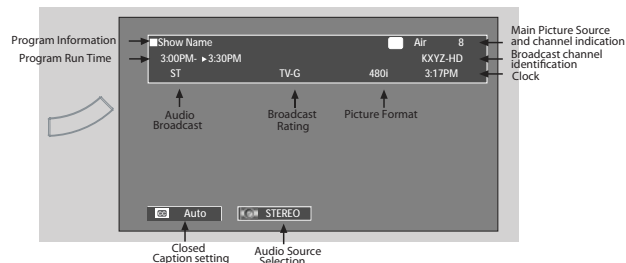
## 13 GUIDE button

Press this button to access the TV Guide On Screen™ interactive display (see page 54-56). Press this button to access the Channel Guide of the (CBL), and (SAT/STB) while in (CBL)(SAT/STB) mode.

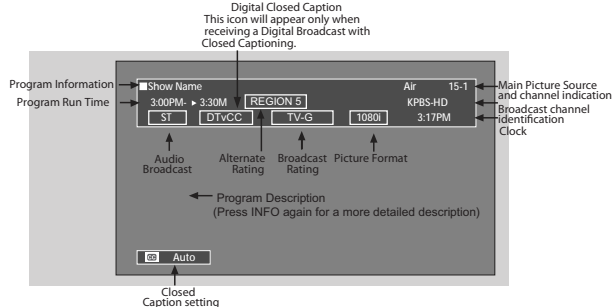
## 14 INFO button

Press this button when you want to check the channel being received, the picture source, if the channel has stereo (ST) or second audio program (SAP), the time, CHANNEL ID and if the TIMER is set.

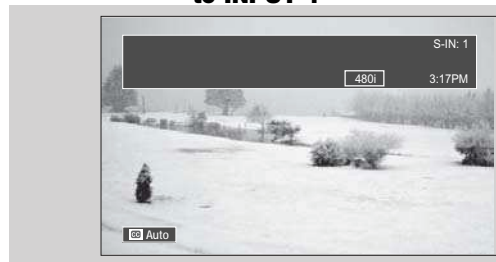
### ANALOG CHANNELS



### DIGITAL CHANNELS



### When an S-VIDEO Input is connected to INPUT 1



### When a Component Video: Y-PbPr Input is connected to INPUT 3



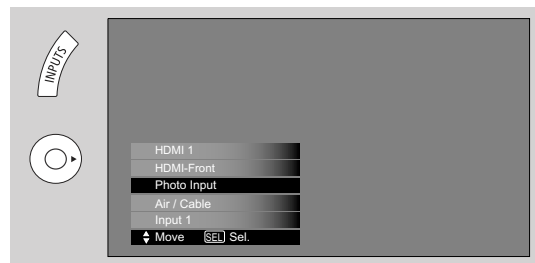
**NOTE:** 1. Press the **INFO** button again or the **EXIT** button to return to normal viewing.  
2. The Aspect setting will not be shown if the channel is locked.

# How to Use the Remote to Control Your TV

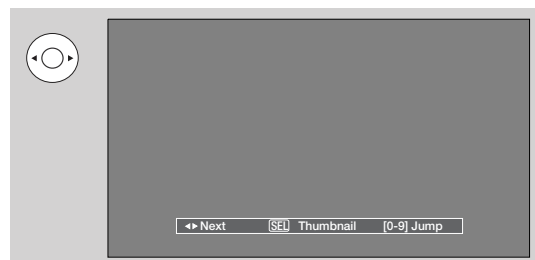
## PHOTO INPUT

This feature is useful for viewing digital still pictures from your digital camera, MMC/SD memory cards using the Photo Input in the front panel of the TV.

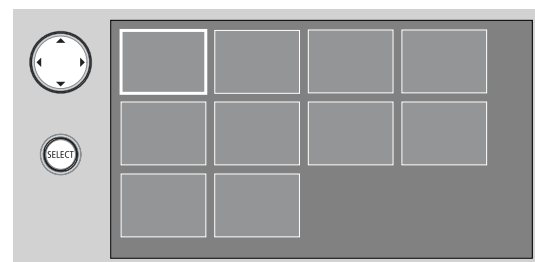
1. Press the **INPUTS** button to cycle through the **INPUTS** selections until the **PHOTO INPUT** is selected. Press the **SELECT** button or **CURSOR PAD** ►.



2. Press the **CURSOR PAD** ◀ or ▶ to access the next or previous photo.



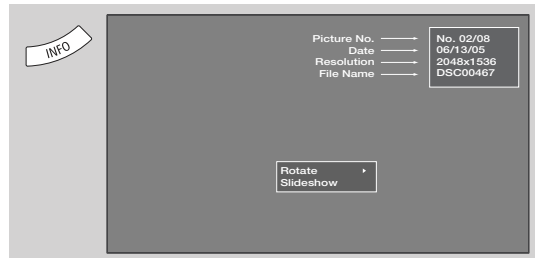
3. Press the **SELECT** button to view THUMBNAIL.
4. Use the **CURSOR PAD** buttons ▲, ▼, ◀ or ▶ and the **SELECT** button to navigate and select individual chosen photos.



5. Press the picture number to jump from picture to picture.



6. Press the **INFO** button to access **PHOTO** Input menu and to view Photo information.
7. Press the **CURSOR PAD** ▲ or ▼ and the **SELECT** button to navigate and select the **PHOTO** Input menu.

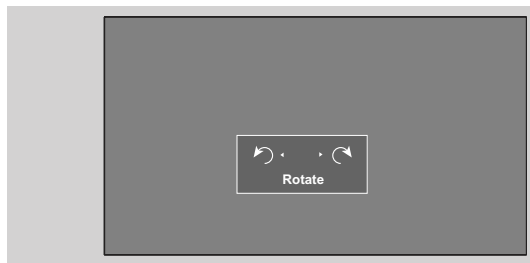


- NOTES:**
1. Contrast will decrease automatically if stationary images such as digital still photos are left on the screen for more than 3 minutes.
  2. The maximum number of digital Photos that can be displayed is 999.
  3. Press **INFO** button to show Picture Numbers in Thumbnail view, plus other information in individual photos.
  4. The screen may show "Input device not detected" if the MMC/SD memory card is not inserted.

## How to Use the Remote to Control Your TV

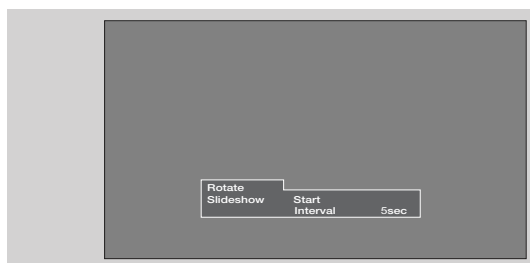
### ROTATE

Select this menu item to rotate selected photos either clockwise (**CURSOR PAD ►**) and counterclockwise (**CURSOR PAD ◄**).



### SLIDESHOW

Select this menu item to start a slideshow of the digital photos. While the Interval sub menu is highlighted, press the **SELECT** button to cycle through the interval time from 5, 10 and 30 seconds. Press the **SELECT** button to stop on a chosen picture of the slideshow. After 30 seconds, the slideshow will resume or press the **SELECT** button again to continue with the slideshow.



### NOTES:

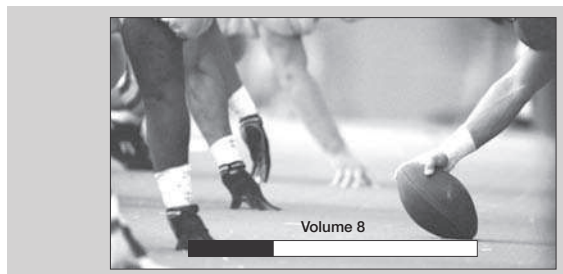
1. Automatic contrast reduction also applies during SLIDESHOW, then press any button to continue.
2. Photo file names modified on a computer should be 8 characters (Ex. ABCD1234.jpg). 1st character: letters; 2nd to 4th: letters or numbers; 5th to 8th: numbers. Photo files should be first placed on a sub directory name with 8 characters (Ex. 123ABCDE). 1st to 3rd: number; 4th to 8th: letters. The sub directory then should be placed on a main directory with a "dcim" file name format.
3. Supported image types are up to 3072 x 2304; JPEG format should conform with DCF Standard (Design rule for Camera File System).
4. This TV set displays only digital pictures from digital cameras which meet DCF Standard. Pictures that were copied, edited or modified on a computer may not be displayed on the TV set.

## How to Use the Remote to Control Your TV

### 15 **VOLUME (VOL), MUTE button**

Press the **VOLUME** button (▲ or ▼) until you obtain the desired sound level.

To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the **MUTE** button. Press the **MUTE** button again to turn the sound off completely (MUTE). To restore the sound, press the **MUTE** button one more time, or **VOL UP** (▲).



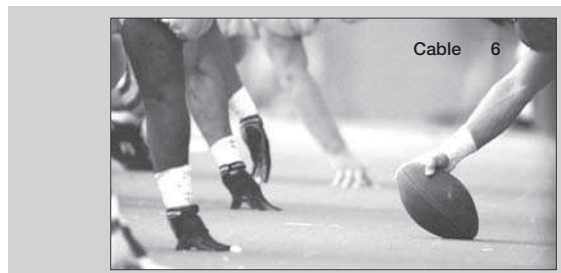
Closed Captioning will display automatically when MUTE/SOFT MUTE is on and Closed Caption is set to **AUTO** (see page 77).

When the TV power is turned off at a volume level 31 or greater, the volume level will default to 30 when the TV is turned on. However, if it is set to a level 30 or less, the volume level will be at the level it was set when the TV is turned on.

### 16 **CHANNEL SELECTOR/FAVORITE CHANNEL (FAV CH)/ENTER buttons**

The **CHANNEL SELECTOR** buttons are used to select channels, lock access code, etc. Use the **CHANNEL SELECTOR** buttons to enter one, two, or three numbers to select channels. Enter **0** first for channels **1** to **9**, or simply press the single digit channel you wish to tune then press the **ENTER** button for the TV to tune. Channel selection may also be performed by **CHANNEL (CH) UP** (▲) or **CHANNEL (CH) DOWN** (▼).

Press the **FAV CH** button to switch to Favorite (FAV) channel mode. You will know you are in Favorite Channel mode when (FAV) is displayed and the displayed channel is **GREEN**. Press it again to return to your regular tuned channels. You can add any channel to your Favorite channel list by pressing and holding down the **FAV CH** button until the displayed channel turns from **WHITE** to highlighted **GREEN**. You can also delete a channel from your favorite channel list by pressing and holding down the **FAV CH** button until the displayed channel turns highlighted **GREEN** to **WHITE**.



### 17 **LAST CHANNEL button**

Press this button to toggle between the current and last channel viewed.

### 18 **(-) DASH button**

Use the **(-) DASH** button with the **CHANNEL SELECTOR** buttons to enter Digital Channels that have subchannel numbers indicated by **(-) DASH** (example 15-1).

### 19 **RECORD button**

Press to record programs when the remote is in PVR/VCR mode.

## The Remote Control

Analog channels cannot be viewed in PIP mode.  
Please see table in next page for PIP availability.

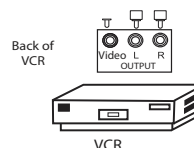
The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing other programs from any of the video inputs.

Dispose this product in accordance  
with the following agency or website: RJ  
Industries Alliance at [www.rjia.org](http://www.rjia.org)  
Product Stewardship Canada at  
1-800-457-4743.

plomb. Disposez ce produit en tenant compte  
des applications. Pour de l'information sur le  
disposer de ce produit, contactez les autorités  
California Recycled Electronics Alliance ou  
le programme des produits électroniques Canada au  
1-800-457-4743.

Potent  
4,907,063 and 1,1745  
uses only.

from Doby Laboratories  
envoyez ces renseignements à



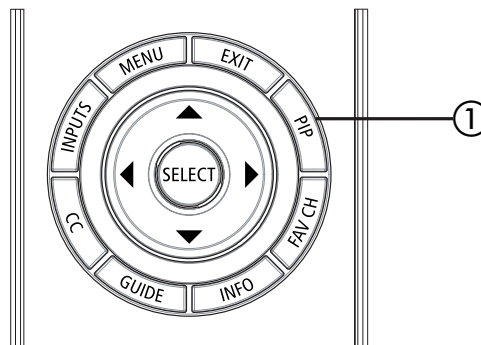
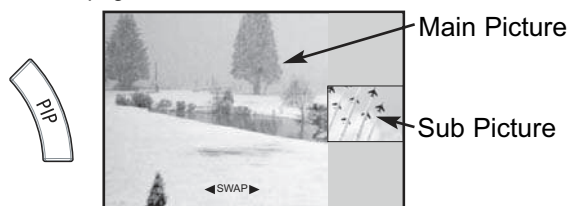
Press the PIP button and a sub-picture will appear in one of three different modes (POP, PIP, or SPLIT), depending on the INPUT signal. To change the PIP mode, use the PIP button to cycle through the three different modes.

Split Mode PIP displays the main picture and sub-picture evenly on the screen.



Sub Picture

POP Mode PIP displays the sub-picture outside of the main picture. Use the CURSOR PAD (▲ or ▼) to move the sub-picture. This feature is not available with a 1080p/1080i/720p signal. Please refer to the PICTURE-IN-PICTURE modes table in next page.

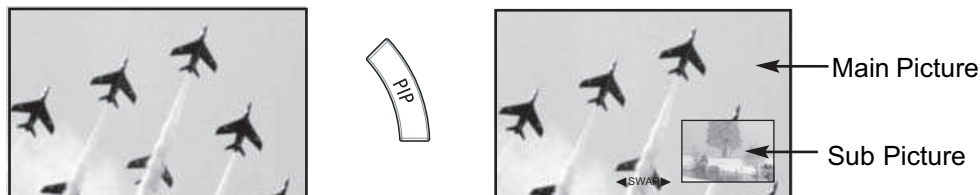


33

# Picture-In-Picture (PIP)

## PIP MODE PICTURE-IN-PICTURE

Select CABLE/AIR or INPUT 1~3, Front from the INPUTS menu. Select a channel that has a 1080p/1080i/720p signal. To prevent a pattern burn, occasionally move the sub-picture using the CURSOR PAD.



PIP Specifications Table

PIP Mode			Sub		Digital (Air or Cable)						Component/Composite/S-IN/HDMI					
					1080i		720p		480p		480i		1080i/p		720p	
					16x9	16x9	16x9	4x3	16x9	4x3	16x9	4x3	16x9	4x3	16x9	4x3
POP	Digital (Air or Cable)	1080i	16x9													
		720p	16x9													
		480p	16x9													
		480p	4x3										Yes	Yes	Yes	Yes
		480i	16x9													
		480i	4x3										Yes	Yes	Yes	Yes
	Component Composite S-IN HDMI	1080i/p	16x9													
		720p	16x9													
		480p	16x9	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1						
		480p	4x3	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
		480i	16x9	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1	Yes*1						
		480i	4x3	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
PIP 16x9	Digital (Air or Cable)	1080i	16x9										Yes	Yes	Yes*2	Yes*2
		720p	16x9										Yes	Yes	Yes*2	Yes*2
		480p	16x9										Yes	Yes	Yes*2	Yes*2
		480p	4x3													
		480i	16x9										Yes	Yes	Yes*2	Yes*2
		480i	4x3													
	Component Composite S-IN HDMI	1080i/p	16x9	Yes	Yes	Yes			Yes							
		720p	16x9	Yes	Yes	Yes			Yes							
		480p	16x9	Yes*2	Yes*2	Yes*2			Yes*2							
		480p	4x3													
		480i	16x9	Yes*2	Yes*2	Yes*2			Yes*2							
		480i	4x3													
PIP 4x3	Digital (Air or Cable)	1080i	16x9												Yes*1	Yes
		720p	16x9												Yes*1	Yes
		480p	16x9												Yes*1	Yes
		480p	4x3													
		480i	16x9												Yes*1	Yes
		480i	4x3													
	Component Composite S-IN HDMI	1080i/p	16x9					Yes		Yes						
		720p	16x9					Yes		Yes						
		480p	16x9					Yes*2		Yes*2						
		480p	4x3													
		480i	16x9					Yes*2		Yes*2						
		480i	4x3													
SPLIT	Digital (Air or Cable)	1080i	16x9										Yes	Yes	Yes	Yes
		720p	16x9										Yes	Yes	Yes	Yes
		480p	16x9										Yes	Yes	Yes	Yes
		480p	4x3										Yes	Yes	Yes	Yes
		480i	16x9										Yes	Yes	Yes	Yes
		480i	4x3										Yes	Yes	Yes	Yes
	Component Composite S-IN HDMI	1080i/p	16x9	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
		720p	16x9	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
		480p	16x9	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
		480p	4x3	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
		480i	16x9	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
		480i	4x3	Yes	Yes	Yes	Yes	Yes	Yes	Yes						

Yes\*1: Auto Aspect OFF

Yes\*2: Auto Aspect ON

## Picture-In-Picture (PIP)

### MAIN FREEZE

Press the **PAUSE** button to freeze one frame of the picture you are currently viewing and the frozen frame will show in the Main Picture. Press the **EXIT** button to return to normal viewing. This feature is useful for freezing a picture frame with addresses.



### SPLIT FREEZE

Press the **PAUSE** button to freeze the picture you are currently viewing (only the right sub-picture will freeze). Press the **EXIT** button to return to normal viewing.



Main Picture

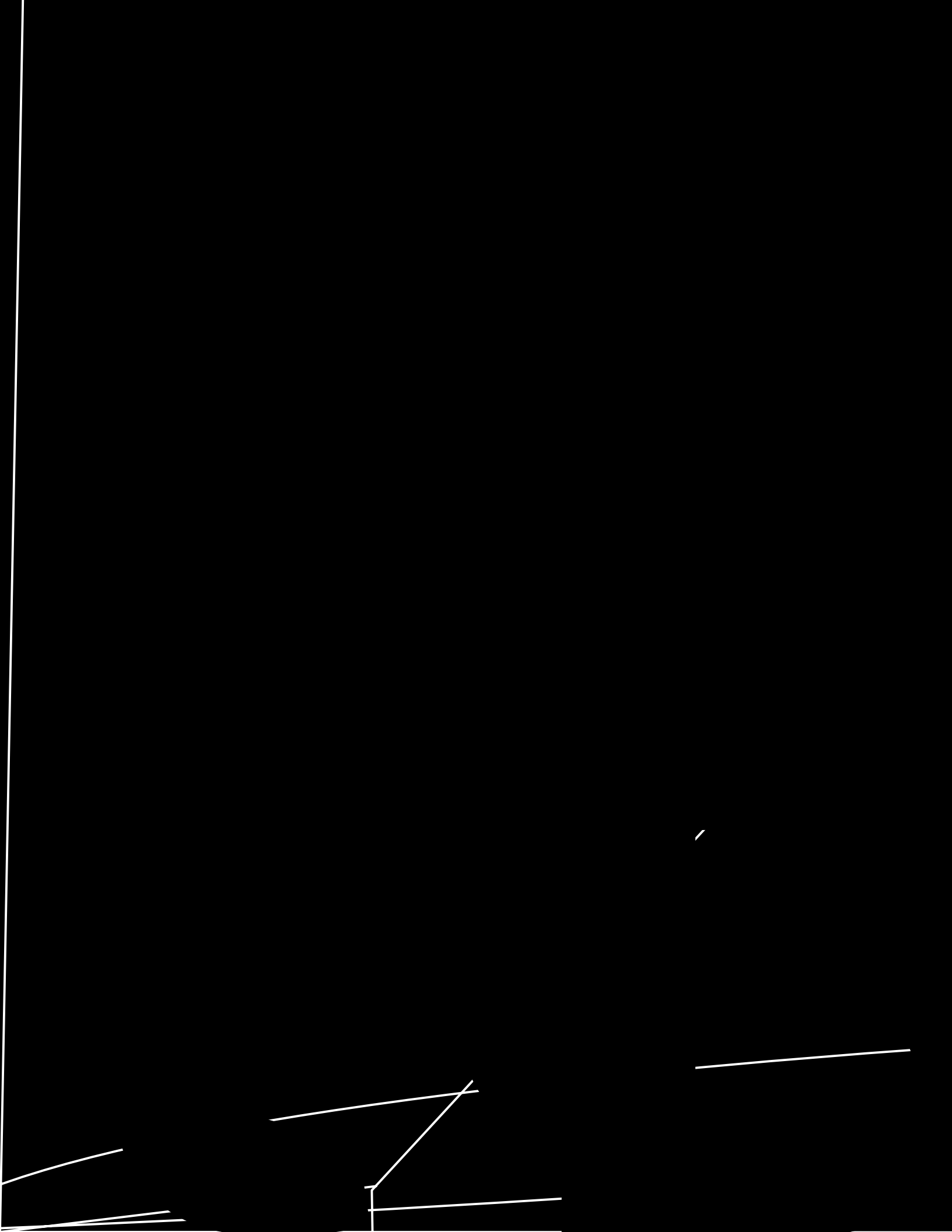
Sub Picture



### STROBE FREEZE

Press the **PAUSE** button to freeze three frames of the picture you are currently viewing (only the 3 sub-pictures will freeze). Press the **EXIT** button to return to normal viewing. This feature is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.







# The Remote Control for Set-Top-Box/Satellite Receiver Functions

## OPERATING THE PRECODED FUNCTION FOR YOUR SET-TOP-BOX/SATELLITE RECEIVER.

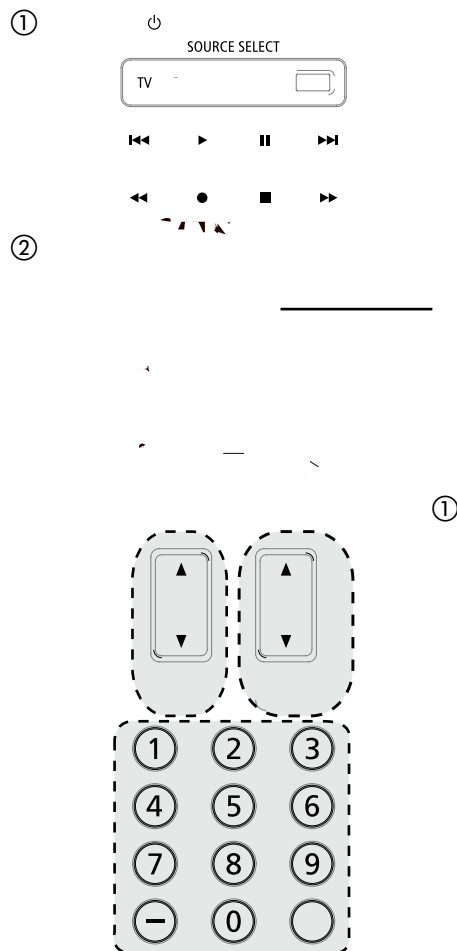
This remote is designed to operate different types of set-top-box/satellite systems. You must first program the remote to match the remote system of your set-top-box/satellite systems (refer to pages 42-43 for pre-codes).

1. Turn ON your set-top-box/satellite systems.
2. To switch to set-top-box/satellite (SAT) pre-coded mode, use the **SOURCE SELECT** button on the remote control to position the LED light to the corresponding selection **SAT/CBL**.
3. Hold down the **SOURCE SELECT** button on the remote and enter the four digit preset code that matches your set-top-box/satellite receiver as shown on page 42-43. Release the **SOURCE SELECT** button. The indicator light will flash 3 times if the code was accepted.
4. Aim the remote at the set-top-box/satellite receiver and press the **POWER** button. The remote will turn off your set-top-box/satellite receiver when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your set-top-box/satellite receiver. If the set-top-box/satellite receiver does not turn off, try a different four digit preset code.
5. The remote will now control your set-top-box/satellite receiver.

**NOTE:** 1. If your set-top-box/satellite receiver cannot be operated after performing the above procedures, your set-top-box/satellite receiver code has not been precoded into the remote.

2. In the unlikely event that your set-top-box/satellite receiver cannot be operated after performing the above procedures, please consult your set-top-box/satellite receiver operating guide.

3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming process as stated above.



### ① PRECODED SET-TOP-BOX/SATELLITE RECEIVER buttons

These buttons transmit the chosen pre-coded set-top-box/satellite codes :

### ② EXCLUSIVE TV buttons

These buttons are for operating the TV :

**MY Satellite RECEIVER/  
SET-TOP-BOX CODE IS:** \_\_\_\_\_

**NOTE:** Refer to instruction manual of the Set-Top-Box/Satellite Receiver for operation of the buttons exclusively for the Set-Top-Box/Satellite Receiver.

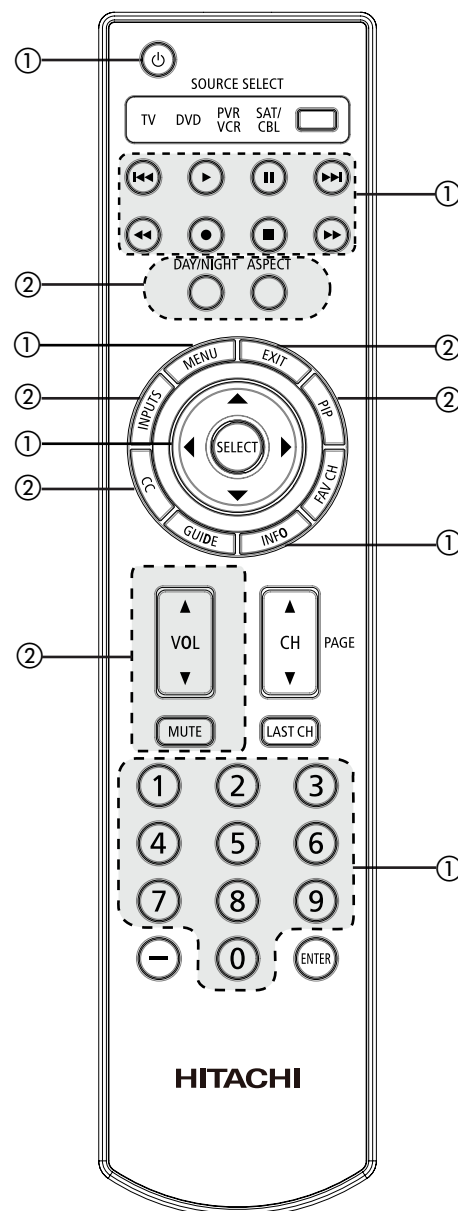
## The Remote Control for DVD Functions

### OPERATING THE PRECODED FUNCTION FOR YOUR DVD PLAYER.

This remote is designed to operate different types of DVD players. You must first program the remote to match the remote system of your DVD player (refer to pages 42-43 for pre-codes).

1. Turn ON your DVD player.
2. To switch to DVD pre-coded mode, use the **SOURCE SELECT** button on the remote control to position the LED light to the corresponding selection **DVD**.
3. Hold down the **SOURCE SELECT** button on the remote and enter the four digit preset code that matches your DVD player, as shown on pages 42-43. Release the **SOURCE SELECT** button. The indicator light will flash 3 times if the code was accepted.
4. Aim the remote at the DVD player and press the **POWER** button. The remote will turn off your DVD player when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your DVD player. If the DVD player does not turn off, try a different four digit preset code.
5. The remote will now control your DVD player.

**NOTE:** 1. If your DVD player cannot be operated after performing the above procedures, your DVD player code has not been precoded into the remote.  
 2. In the unlikely event that your DVD player cannot be operated after performing the above procedures, please consult your DVD player operating guide.  
 3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.



#### ① PRECODED DVD Buttons

These buttons transmit the chosen precoded DVD codes :

- Power
- Menu
- Info
- Cursor & Select
- Number PAD
- Play, Stop, Pause,
- RWD, FWD, Skip RWD,
- Skip FWD.

#### ② EXCLUSIVE TV Buttons

These buttons are for operating the TV :

- Day/Night
- Aspect
- PIP
- Exit
- CC
- Vol Up & Down
- Mute
- Inputs (Only if programmed, refer to page 40)

**MY DVD PLAYER CODE IS:** \_\_\_\_\_

**NOTE:** Refer to instruction manual of the DVD Player for operation of the buttons exclusively for the DVD Player.

# The Remote for VCR/PVR Functions

## OPERATING THE PRECODED FUNCTION FOR YOUR VCR/PVR (Personal Video Recorder).

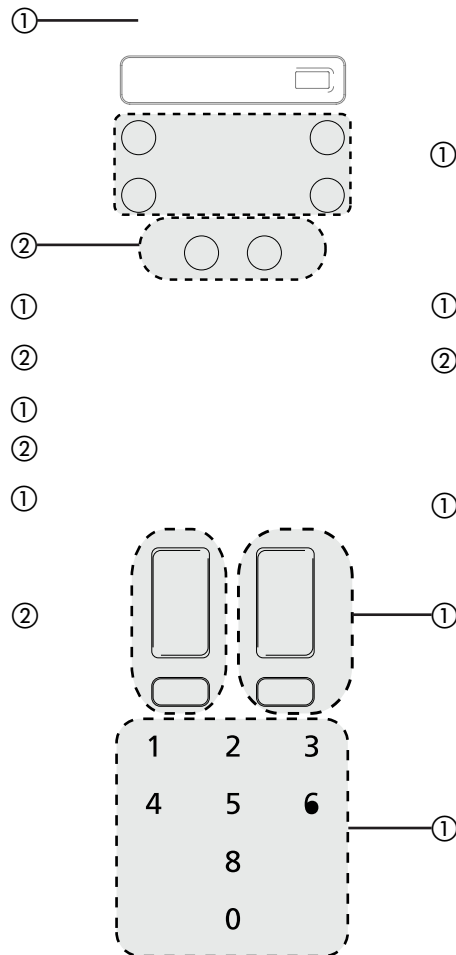
This remote is designed to operate different types of VCRs/PVRs. You must first program the remote to match the remote system of your VCR/PVR (refer to pages 42-43 for pre-codes).

1. Turn ON your VCR/PVR.
2. To switch to VCR/PVR pre-coded mode, use the **SOURCE SELECT** button on the remote control to position the LED light to the corresponding selection **PVR/VCR**.
3. Hold down the **SOURCE SELECT** button on the remote and enter the four digit preset code that matches your VCR/PVR, as shown on pages 42-43. Release the **SOURCE SELECT** button. The indicator light will flash 3 times if the code was accepted.
4. Aim the remote at the VCR/PVR and press the **POWER** button. The remote will turn off your PVR when the correct four digit preset code is entered. When this occurs, the remote control is programmed for your VCR/PVR. If the VCR/PVR does not turn off, try a different four digit preset code.
5. The remote will now control your VCR/PVR.

**NOTE:** 1. If your VCR/PVR cannot be operated after performing the above procedures, your VCR/PVR code has not been precoded into the remote.

2. In the unlikely event that your VCR/PVR cannot be operated after performing the above procedures, please consult your VCR/PVR operating guide.

3. The remote control will remember the codes you have programmed until the batteries are removed from the remote control. After replacing the batteries repeat the entire programming procedure as stated above.



### ① PRECODED VCR/PVR Buttons

These buttons transmit the chosen precoded VCR/PVR codes :

-Power	-Cursor & Select	-Enter
-Menu	-Channel Up & Down	-Dash (-)
-Exit	-Number PAD	-Play, Pause, Stop
-Info	-Last CH	-FWD, Skip FWD
-Record	-RWD	

### ② EXCLUSIVE TV Buttons

These buttons are for operating the TV :

-Day/Night	-CC	-Inputs (only if programmed, refer to page 40)
-Aspect	-Vol Up & Down	
-PIP	-Mute	

**MY VCR/PVR CODE IS:** \_\_\_\_\_

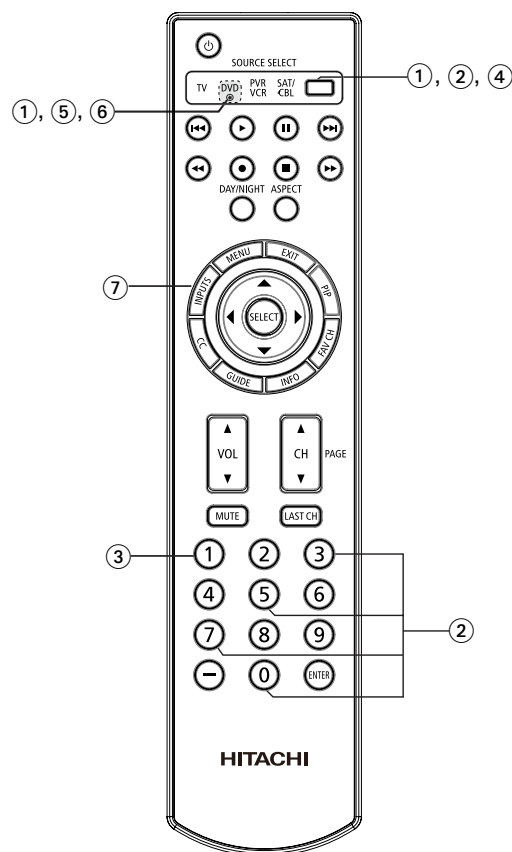
**NOTE:** Refer to instruction manual of the VCR/PVR for operation of the buttons exclusively for the VCR/PVR.

# How to Use the SOURCE SELECT Button

## INPUT ACCESS

This optional feature allows the user of the remote control to setup it's SOURCE SELECT button to access the specified input of the TV. Setup for this feature is applicable to the remote control's normal mode only and only applies to the DVD, PVR/VCR and SAT/CBL modes.

1. Select the desired device mode (DVD, PVR/VCR, SAT/CBL) by using your SOURCE SELECT button to position the LED indicator to the corresponding selection.
2. Hold down the SOURCE SELECT button on the remote and enter the four digit preset code that matches your device as shown on pages 42-43.
3. Then enter the assigned input number (1-7) that the device is related to (refer below to Table 1).
4. Release the SOURCE SELECT button.
5. If done correctly, the device LED indicator will blink 3 times to confirm proper setup.
6. The remote will now control the desired device.
7. Pressing the INPUTS button will now access the video input of the desired device.



## SETUP EXAMPLE (Hitachi DVD with precode 0573 connected to INPUT 1 of the TV)

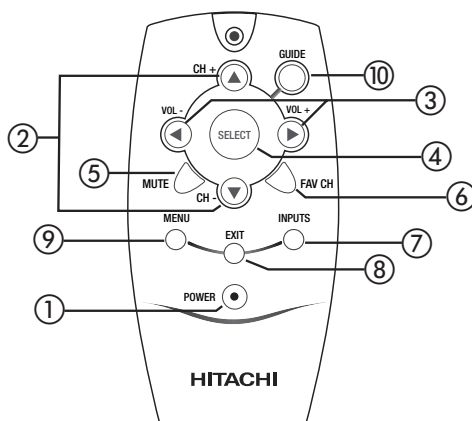
- ① Select DVD mode by using your SOURCE SELECT button to position the LED indicator to DVD.
- ② Hold down the SOURCE SELECT button and press the numbers 0, 5, 7 and 3.
- ③ Then press the number 1 for the assigned input number of the DVD player.
- ④ Release SOURCE SELECT button.
- ⑤ If done correctly, the device LED indicator will blink 3 times to confirm proper setup.
- ⑥ The remote will now control the DVD player.
- ⑦ Press the INPUTS button to instantly access the video input of your DVD on Input 1.

Table 1	
INPUT	ASSIGNMENT NUMBER
INPUT 1	1
INPUT 2	2
INPUT 3	3
INPUT- FRONT	4
HDMI 1	5
HDMI 2	6
HDMI- FRONT	7

**NOTE:** 1. This feature is optional  
2. Assigned input numbers can be used more than once if applicable.

# The Simple Remote Control

HITACHI has provided a second remote control for your convenience. The Simple Remote Control has the basic features that are most often used.



- ① **POWER button**  
Press Power button to turn the Plasma Television ON or OFF.
- ② **CH+ (▲) and CH- (▼)**  
Press the CH+ (▲) up or CH- (▼) down buttons to select desired channel or to navigate the on screen display features when in **GUIDE** mode.
- ③ **VOL- (◀) and VOL+ (▶)**  
Press the VOL- (◀) down or VOL+ (▶) up buttons to select desired sound level or to navigate the on screen display features when in **GUIDE** mode.
- ④ **SELECT button**  
Press SELECT button to Select when in MENU and **GUIDE** mode.
- ⑤ **MUTE button**  
To reduce the sound to one half of normal volume (SOFT MUTE) to answer the telephone, etc., press the MUTE button. Press the MUTE button again to turn the sound off completely (MUTE). To restore the sound, press the MUTE button one more time, or press the VOLUME Up (▶) button.
- ⑥ **FAV CH button**  
Press FAV CH button to access your favorite channels.
- ⑦ **INPUTS button**  
Pressing the INPUTS button repeatedly will cycle through the input items (see page 29).
- ⑧ **EXIT button**  
When in MENU mode, this button will exit all On-Screen Displays.
- ⑨ **MENU button**  
Press the MENU button to start the On-Screen Display.
- ⑩ **GUIDE button**  
Press this button to access the TV Guide On-Screen™ system (See complete explanation and example on page 54-56).

**NOTE:** The Simple Remote cannot be programmed to control external components.

# Remote Control Codes

Cable BRAND	Codes
ABC .....	0003,0008,0011
Americast .....	0899
Amino .....	1602
Bell South .....	0899
Clearmaster .....	0883
ClearMax .....	0883
Coolmax .....	0883
Digeo .....	1187
Director .....	0476
General Instrument .....	0476,0810,0276,0003,0011
GoldStar .....	0144
Hamlin .....	0009,0273
Hitachi .....	0011,1421
i3 Micro .....	1602
Jerrold .....	0476,0810,0276,0003,0012,0011
Memorex .....	0000
Motorola .....	1376,0476,0810,0276,1187,1254,1106
Multitech .....	0883
MultiVision .....	0012
Myrio .....	1602
Pace .....	1877,0237,0008
Panasonic .....	0000,0107
Paragon .....	0000
Philips .....	1305,0317
Pioneer .....	1877,0877,0144,0533
Pulsar .....	0000
Quasar .....	0000
RadioShack .....	0883
RCA .....	1256
Regal .....	0279,0273
Rembrandt .....	0011
Runco .....	0000
Samsung .....	0144
Scientific Atlanta .....	1877,0877,0477,0008
Sejin .....	1602
Signature .....	0011
Sony .....	1006
Starcom .....	0003
Supercable .....	0276
Supermax .....	0883
Thomson .....	1256
Tocom .....	0012
Torx .....	0003
Toshiba .....	0000
Tristar .....	0883
V2 .....	0883
Viewmaster .....	0883
Vision .....	0883
Vortex View .....	0883
Zenith .....	0000,0525,0899

Cable/PVR	Codes
Combo BRAND	
Americast .....	0899
Digeo .....	1187
General Instrument .....	0810
Jerrold .....	0810
Motorola .....	1376,0810,1187,1106
Pace .....	1877,0237
Pioneer .....	1877,0877
RCA .....	1256
Scientific Atlanta .....	1877,0877
Sony .....	1006
Supercable .....	0276
Thomson .....	1256
Zenith .....	0899

SATELLITE BRAND	Codes
(Set Top Box)	
AlphaStar .....	0772
Chaparral .....	0216
Crossdigital .....	1109
DirectTV .....	1377,0392,0566,0639,1639,1142,0247,0749,1749,0724,0819,1856,1076,1108,0099,1109,1414,1442,1609,1392,1640
Dish Network System .....	1505,1005,0775,1775
Dishpro .....	1505,1005,0775,1775
Echostar .....	0775,1775
Expressvu .....	0566
GE .....	0566

General Instrument .....	0869
GOI .....	0775,1775
Goodmans .....	1246
Hisense .....	1535
Hitachi .....	0819,1250
HTS .....	0775,1775
Hughes Network System .....	1142,0749,1749,1442
iLo .....	1535
JVC .....	0775,1775
LG .....	1226,1414
Magnavox .....	0724,0722
Memorex .....	0724
Mitsubishi .....	0749
Motorola .....	0869
NEC .....	1270
Next Level .....	0869
Pace .....	0887
Panasonic .....	0247,0701
Paysat .....	0724
Philips .....	1142,0749,1749,0724,1076,0722,0099,1442
Proscan .....	0392,0566
Proton .....	1535
RadioShack .....	0869
RCA .....	0566,0855,0143,1392
Samsung .....	1377,1276,1108,1109,1442,1609
Sanyo .....	1219
SKY .....	0856
Sony .....	0639,1639,1640
Star Choice .....	0869
Tivo .....	1142,1442
Toshiba .....	0749,1749,0790,1285
UltimateTV .....	1392,1640
Uniden .....	0724,0722
US Digital .....	1535
USDTV .....	1535
Voom .....	0869
Zenith .....	0856,1856

DBS/PVR	Codes
Combo BRAND	
DirectTV .....	1377,0392,0639,1142,1076,0099,1392,1442,1640
Dish Network System .....	1505,0775
Dishpro .....	1505,0775
Echostar .....	1505,0775
Expressvu .....	0775
Hughes Network System .....	1142,1442
Motorola .....	0869
Philips .....	1142,1442
Proscan .....	0392
RCA .....	1392
Samsung .....	1442
Sony .....	0639,1640
Star Choice .....	0869

VCR BRAND	Codes
ABS .....	1972
Admiral .....	0048,0209
Adventura .....	0000
Aiko .....	0278
Aiwa .....	0037,0000,0124,0307
Akai .....	0041,0061,0106,0175
Alienware .....	1972
America Action .....	0278
American High .....	0035
Asha .....	0240
Audiovox .....	0037,0278
Beaumarck .....	0240
Bell & Howell .....	0104
Broksonic .....	0184,0121,0209,0002,0479,1479
Calix .....	0037
Canon .....	0035
Capehart .....	0020
Carver .....	0081
CCE .....	0072,0278
Citizen .....	0037,0278,1278
Colt .....	0072
Craig .....	0037,0047,0240,0072,0271
Curtis Mathes .....	0060,0035,0162,0041,0760,1035
Cybernex .....	0240
CyberPower .....	1972

Daewoo .....	0045,0278,0020,0561,1278
Daytron .....	0020
Dell .....	1972
Denon .....	0042
DirectTV .....	0739
Durabrand .....	0039,0038
Dynatech .....	0000
Electrohome .....	0037
Electrohome .....	0037
Emerex .....	0032
Emerson .....	0037,0184,0000,0121,0043,0209,0002,0278,0061,0208,0479,0561,0593,1278,1479,1593,0047,0104
Fisher .....	0047,0104
Fuji .....	0035,0033
Funai .....	0000,0593,1593
Garrard .....	0000
Gateway .....	1972
GE .....	0060,0035,0240,0065,0202,0760,0761,0807,1035,1060
Go Video .....	0432,0526
GoldStar .....	0037,0038,1237
Gradiente .....	0000
Harley Davidson .....	0000
Harman/Kardon .....	0081,0038
Harwood .....	0072
Headquarter .....	0046
Hewlett Packard .....	1972
Hi-Q .....	0047
Hitachi .....	0000,0042,0041,0065,0089,0105,0543,0544
Howard Computers .....	1972
HP .....	1972
Hughes Network System .....	0042,0739
Humax .....	0739
Hush .....	1972
iBUYPOWER .....	1972
Jensen .....	0041
JVC .....	0067,0041,0008
KEC .....	0037,0278
Kenwood .....	0067,0041,0038
KLH .....	0072
Kodak .....	0035,0037
LG .....	1037
Linksys .....	1972
Lloyd's .....	0000,0208
Logik .....	0072
LXI .....	0037
Magnasonic .....	0593,1278
Magnavox .....	0035,0039,0081,0000,0149,0563,0593,1593,1781
Magnin .....	0240
Marantz .....	0035,0081
Marta .....	0037
Matsushita .....	0035,0162,1162
Media Center PC .....	1972
MEI .....	0035
Memorex .....	0035,0162,0037,0048,0039,0047,0240,0000,0104,0209,0046,0307,0479,1037,1162,1237,1262
MGA .....	0240,0043,0061
MGN Technology .....	0240
Microsoft .....	1972
Mind .....	1972
Minolta .....	0042,0105
Mitsubishi .....	0067,0043,0061,0807
Motorola .....	0035,0048
MTC .....	0240,0000
Multitech .....	0000,0072
NEC .....	0104,0067,0041,0038
Nikko .....	0037
Niveus Media .....	1972
Noblex .....	0240
Northgate .....	1972
Olympus .....	0035
Onkyo .....	0222
Optimus .....	1062,0162,0037,0048,0104,0432,0593,1048,1162,1262
Optonica .....	0062
Orion .....	0184,0209,0002,0479

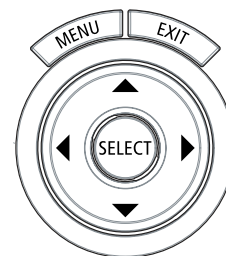
Panasonic .....	1479,1062,0035,0162,0225,0616,1035,1162,1262
Penney .....	0035,0037,0240,0042,0038,1035,1237
Pentax .....	0042,0065,0105
Philco .....	0035,0479
Philips .....	0035,0081,0062,0618,0739,1081,1181
Pilot .....	0037
Pioneer .....	0067
Polk Audio .....	0081
Portland .....	0020
Presidian .....	1593
Profitronic .....	0240
Proscan .....	0060,0202,0760,0761,1060
Protec .....	0072
Pulsar .....	0039
Quarter .....	0046
Quartz .....	0046
Quasar .....	0035,0162,1035,1162
RadioShack .....	0000,1037
Radix .....	0037
Randex .....	0037
RCA .....	0060,0240,0042,0149,0065,0105,0106,0202,0760,0761,0807,0880,1035,1060
Realistic .....	0035,0037,0048,0047,0000,0104,0046,0062
ReplayTV .....	0614,0616
Ricavision .....	1972
Runco .....	0039
Samsung .....	0240,0045,0739,1014
Sanky .....	0048,0039
Sansui .....	0000,0067,0209,0041,0271,0479,1479
Sanyo .....	0047,0240,0104,0046,0159
Scott .....	0184,0045,0121,0043
Sears .....	0035,0037,0047,0000,0042,0104,0046,0105,1237
Sharp .....	0048,0062,0807,0848
Shintom .....	0072
Shogun .....	0240
Singer .....	0072
Sonic Blue .....	0614,0616
Sony .....	0035,0032,0033,0000,0636,1032,1232,1972
Stack .....	0009,1972
STS .....	0042
Sylvania .....	0035,0081,0000,0043,0593,1593,1781
Symphonic .....	0000,0593,1593
Systemax .....	1972
Tagar Systems .....	1972
Tatung .....	0041
Teac .....	0000,0041
Technics .....	0035,0162
Teknika .....	0035,0037,0000
Thomas .....	0000
Tivo .....	0618,0636,0739,1996
TMK .....	0240,0208
Toshiba .....	0045,0043,0845,1008,1145,1972,1996
Totevision .....	0037,0240
Touch .....	1972
Unitech .....	0240
Vector .....	0045
Vector Research .....	0038
Video Concepts .....	0045,0061
Videomagic .....	0037
Videoseonic .....	0240
Viewsonic .....	1972
Villain .....	0000
Voodoo .....	1972
Wards .....	0060,0035,0048,0047,0081,0240,0000,0042,0072,0149,0062,0760
White Westinghouse .....	0209,0072
XR-1000 .....	0035,0000,0072
Yamaha .....	0038
Zenith .....	0039,0033,0000,0209,0479,1139,1479
ZT Group .....	1972

# Remote Control Codes

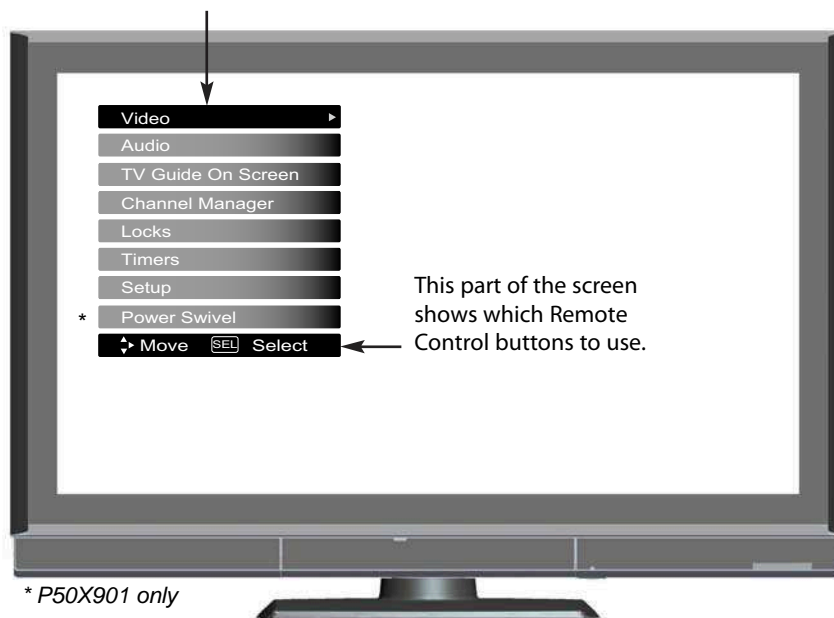
<b>DBS/PVR Combo BRAND</b>	<b>Codes</b>	Enterprise	0591	Sony	0533,1533,0864,1033,1431
Hughes Network Systems	0739	ESA	0821,1268	Sova	1122
Philips	0739	Fisher	0670,1919	Sungale	1074
Samsung	0739	Funai	0675,1268,1334	Superscan	0821
		Gateway	1073,1077,1158	SVA	0860,1105
		GE	0522,0815,0717	Sylvania	0675,0821,1268
<b>PVR BRAND</b>	<b>Codes</b>	Go Video	0744,0715,0741,0783,0833,0869,1044,1075,1099,1144,1158,1304,1730	Symphonic	0675,0821
ABS	1972			Teac	0758,0790,0809
Alienware	1972			Technics	0490,0703
CyberPower	1972			Technosonic	0730
Dell	1972	Go Vision	1071,1072	Techwood	0692
DirectTV	0739	GoldStar	0741	Terapin	1031
Gateway	1972	GPX	0699,0769	Theta Digital	0571
Hewlett Packard	1972	Greenhill	0717	Toshiba	0503,0695,1045,1154
Howard Computers	1972	Harman/Kardon	0582,0702	Tredex	0799,0800,0803,0804
HP	1972	Hitachi	0573,0664,1247,1919	TYT	0705
Hughes Network Systems	0739	Hiteker	0672	Urban Concepts	0503
Humax	0739	iLo	1348	US Logic	0839
Hush	1972	Initial	0717	Venturer	0790
iBUYPOWER	1972	Insignia	1268	Vizio	1064,1226
Linksys	1972	Integra	0627	Xbox	0522
Media Center PC	1972	JBL	0702	Yamaha	0490,0539,0545
Microsoft	1972	Jensen	1016	Zenith	0503,0591,0741,0869
Mind	1972	JSI	1423	Zoece	1265
Niveus Media	1972	JVC	0558,0623,0867,1164		
Northgate	1972	jWin	1049,1051		
Panasonic	0616	Kawasaki	0790	<b>DVD-R</b>	<b>Codes</b>
Philips	0618,0739	Kenwood	0490,0534,0682,0737	Accurian	1416
RCA	0880	KLH	0717,0790,1020,1149	Apex Digital	1056
ReplayTV	0614,0616		1261	Aspire Digital	1168
Samsung	0739	Konka	0711,0719,0720,0721	Coby	1086
Sonic Blue	0614,0616	Koss	0651,0896,1423	CyberHome	1129
Sony	0636,1972	Landel	0826	Funai	0675,1334
Stack	0009,1972	Lasonic	0798,1173	Gateway	1073,1158
Systemax	1972	Lenoxx	1127	Go Video	0741,1158,1304,1730
Tagar Systems	1972	LG	0591,0741,0801,0869	iLo	1348
Tivo	0618,0636,0739	LiteOn	1058,1158,1416,1440	JVC	1164
Toshiba	1008,1972,1996	Loewe	0511	LG	0741
Touch	1972	Magnavox	0503,0539,0646,0675,0821,1268	LiteOn	1158,1416,1440
Viewsonic	1972			Magnavox	0646,0675
Voodoo	1972	Malata	0782,1159	Panasonic	0490
ZT Group	1972	Marantz	0539	Philips	0646
		Memorex	0695,0831,1270	Pioneer	0631
		Microsoft	0522	Polaroid	1086
<b>DVD BRAND</b>	<b>Codes</b>	Mintek	0839,0717	RCA	0522
Accurian	1072,1416	Mitsubishi	1521,0521	Samsung	0490
Advent	1016	Momitsu	1082	Sensory Science	1158
Aiwa	0641	NAD	0741	Sharp	0675
Akai	0695,0770,0899,1089	NEC	0785	Sony	1033,1431
Alco	0790	Nesa	0717	Sylvania	0675
Allegro	0869	Next Base	0826	Zenith	0741
Amphion Media Works	0872	NexxTech	1402		
AMW	0872	Norcent	1003,0872,1107,1265		
Apex Digital	0672,0717,0755,0794	Onkyo	0503,0627,0792		
	0795,0796,0797,0830	OptoMedia Electronics	0896		
	1004,1020,1056,1061	Oritron	0651		
	1100	Panasonic	0490,0632,0703,1362,1462,1490,1762		
Arrgo	1023	Philco	0690,0733,0790,0862,1855,2000		
Aspire Digital	1168,1407	Philips	0503,0539,0646,0675,0854,1260,1267,1354		
Audiologic	0736,	Pioneer	0525,0571,0631,0632		
Audiovox	0790,1041,1071,1072	Polaroid	1020,1061,1086		
	1121,1122	Polk Audio	0539		
Axion	1071,1072	Portland	0770		
B & K	0655,0662	Presidian	0675,1072		
Blaupunkt	0717	Prima	1016		
Blue Parade	0571	Proscan	0522		
Broksonic	0695,0868	ProVision	0778		
Cambridge Soundworks	0690	Qwestar	0651		
Cinea	0831	RCA	0522,0571,0717,0790,0822,1022,1132,1193		
CineVision	0876,0833,0869	Rio	0869		
Citizen	1277	Rotel	0623		
Coby	0778,0852,1086,1107	Rowa	0823		
	1165,1177,1351	Sampo	0698,0752		
Craig	0831	Samsung	0490,0573,0820,0899,1044,1075		
Curtis Mathes	1087	Sansui	0695		
CyberHome	0816,0874,1023,1024	Sanyo	0670,0695,0873,1919		
	1117,1129,	Sensory Science	1158		
Daewoo	0784,0705,0833,0869	Sharp	0630,0675,0752,1256		
	1169,1172,1234,1242	Sharper Image	1117		
Denon	0490,0634	Sherwood	0633,0770,1043,1077		
Desay	1407	Shinsonic	0533,0839		
Disney	0675,1270	Sonic Blue	0869,1099		
Dual	1068,1085				
Durabrand	1127				
DVD2000	0521				
Emerson	0591,0675,0821,1268				

## On-Screen Display

1. Press **MENU** on the remote control to display the different features on your **HITACHI** Plasma TV.
2. Use the **CURSOR PAD** (buttons **▲**, **▼**, **◀** and **▶**) and highlight a different feature of the On-Screen Display menu. Press the **SELECT** button to select.
3. Press **EXIT** on the remote control to quickly exit from a menu.



This part of the screen shows which selections are available.



\* P50X901 only

**NOTE:** The On Screen Display (OSD) for the different submenus shown in next pages are for illustration purposes only, therefore; doesn't reflect the actual appearance of the **OSD** of your **HITACHI** Plasma TV.

### Video

Picture Mode	Select between 3 pictures modes; Day Dynamic, Day Normal and Night.
White Level	Adjust picture white level.
Black Level	Adjust picture black level.
Color	Adjust color.
Tint	Adjust tint.
Sharpness	Adjust sharpness.
ColorTemperature	Set this to High for less intense color with more blue, set to Medium for natural color, set to Standard for standard colors or Black and White for more reddish color.
Black Enhancement	Enhances shadow detail in dark scenes.
Contrast Mode	Use this function to choose between two Contrast Mode settings.
Noise Reduction	Reduces conspicuous noise in the picture.
Cross Color NR	Reduces cross color noise in the picture.
MPEG NR	Reduces mosquito noise in the picture.

Auto Movie Mode	Select the Original 3:2 Pulldown detection or Smooth Motion feature.
Game Mode	Set the Game mode Off/On while playing videogames in TV set.
Color Space	Choose WIDE to select Hi-Fidelity color mode or STANDARD for Faithful color mode with HDTV standard.
Color Management	Adjust and balance individual colors to make either deeper or more pure according to preference.
Color Decoding	Adjust the percentage of Red, Green and Color according to preference.
Auto Color	The AUTO COLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors.



## On-Screen Display

White Balance	Use this function to adjust the dark end (Cutoff) and bright end (drive) of the White background.
Black Side Panel	Set the gray side bars On/Off when watching 4:3 signals in standard mode.
Aspect	Choose the picture format aspect ratio.
Reset Video Settings	Choose to Reset Video Settings to factory settings and to see the Smooth Motion Feature Demo.

### Audio ▼

Treble	Adjust the treble.
Bass	Adjust the bass.
Balance	Adjust the balance.
Surround	Select Surround settings (Off, Wide, Normal)
Bass Boost	Select Bass Boost option ON or OFF.
Audio Source	Select between three Audio Sources.
Internal Speakers	Select internal or external speakers.
Auto Noise Cancel	Eliminates the noise between stations.
Perfect Volume	Adjust volume in fixed setting between stations.
Loudness	Adjust Loudness.
Language	Select Language options if available.
Digital Output	Select Optical Output options.
DRC	Select Dynamic Range Compression to ON or OFF.
Lip Sync	Synchronizes audio with video signal on digital and analog sources.

**NOTE:** The Language, Digital Output, and the Dynamic Range Compression feature of the Audio OSD are only available for Digital channels.

### TV Guide on Screen ▼

TV Guide On Screen	Set, Control and navigate the system
--------------------	--------------------------------------

### Channel Manager ▼

Signal Meter	Access Signal Meter.
Auto Channel Scan	Set Auto Channel Scan.
Channel List	Set Channel List.

### Locks ▼

Change Access Code	Change Lock access code.
Engage Lock	Choose to lock channel, and/or Front panel.
Movie Ratings	Block various types of movies and video types based on motion picture ratings.

TV Ratings	Block various types of movies and television programming based on a parental guide ratings.
------------	---

Canadian Ratings (ENG)	Block various types of movies and television programming based on the Canadian ratings system.
------------------------	--

Canadian Ratings (FRN)	Block various types of movies and television programming based on the Canadian French ratings system.
------------------------	---

Region 5	Ratings system for DTV Signal to block various types of programs.
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### Timers ▼

Set the Clock	Set Clock Settings.
Set Sleep Timer	Set Sleep Timer intervals (30 min. intervals, 00:30-3:00).
Set Day/Night Timer	Set Day/Night picture mode settings.

### Setup ▼

Set The Menu Options	Choose English, French, or Spanish text and Background.
Set The Screen Saver	Select Screen Saver options to prevent screen burn.
Set The Inputs	Label Video Inputs, VCR, DVD, etc.
Set The AV Net	Set AV NET Wizard.
Set The Closed Captions	Feature to display dialogue/text.
Set The IR Out	Set IR Out source.
CableCARD Information	Access important CableCARD and Diagnostics info.
Select The Quick Start Option	Select the TV Quick Start Up Option.
Reset The Software	Select to upgrade TV software and to Reset TV settings.

### Power Swivel\* ▼

Unlocked	Power Swivel enabled. Control the motorized Table Top Stand.
Locked	Power Swivel disabled.

\* P50X901 only

**NOTE:** 1. The Signal Meter feature of the Channel Manager OSD is only available for Digital channels.  
2. Power Swivel feature is only available when Table Top Stand is connected (P50X901 only).

# Video

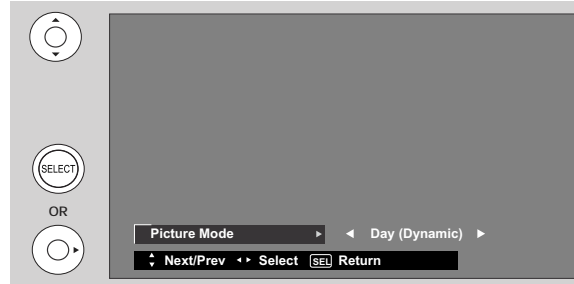
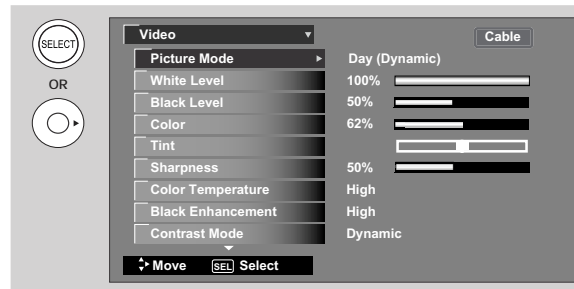
## Video

Select **VIDEO** to adjust picture settings and improve picture quality. You can independently customize each of the Video Inputs to your preference to increase viewing performance and pleasure depending upon the video program being viewed. If **RESET** is selected, only the selected input will reset to initial conditions.

### Picture Mode

Use this function to choose from automatic picture settings to optimize your TV's performance.

1. Use the **CURSOR** buttons ◀ or ▶ to highlight and select **PICTURE MODE** settings (Day-Normal, Day-Dynamic or Night).
2. Then press the **SELECT** button to set the mode and return to the Video menu or press **EXIT** to quit menu.
3. There are 3 Picture Modes available for the customer Day (Dynamic) , Day (Normal) and Night mode. Day (Dynamic) is the original factory preset mode , this can be changed by adjusting any video setting to your desire conditions. Day ( Normal ) can be used as a second video setting for daytime viewing. Night is set to watch programing during nighttime.



1. Use the **CURSOR PAD** ▲ or ▼ to highlight the function to be adjusted.
2. Press the **SELECT** button or the **CURSOR PAD** ▶ to select the function settings.
3. Press the **CURSOR PAD** ◀ or ▶ to adjust the function.
4. Press **MENU** to return to main menu.
5. Press **EXIT** to quit menu.

### White Level

Use this function to change the white level in the picture.

### Black Level

Use this function to change the black level in the picture.

### Color

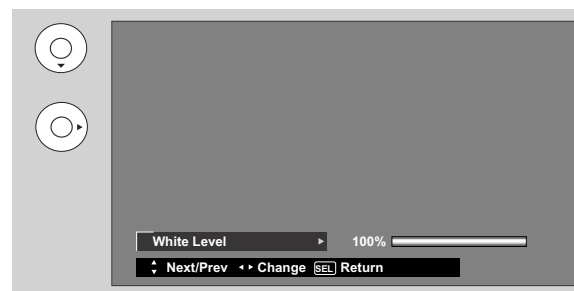
Use this function to adjust the level of color in the picture.

### Tint

Use this function to adjust flesh tones so they appear natural.

### Sharpness

Use this function to adjust the amount of fine detail in the picture.



# Video

## Color Temperature

Set this to High for cooler color with more blue, set to Medium for more natural color, set to Standard for accurate color or set to Black/White for more reddish color.

## Black Enhancement

Use this function to enhance the shadow detail in dark scenes using the settings off, low, middle and high.

**NOTE:** 1. If **WHITE LEVEL** is selected, you are adjusting **WHITE LEVEL**. The additional menu items **BLACK LEVEL**, **COLOR**, **TINT**, and **SHARPNESS** can be selected and adjusted in the same manner.  
2. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the **COMPONENT VIDEO Y-PbPr** input jacks.  
3. **CABLE** and **AIR** share a Video setting. Also, each of the video inputs have their own independent settings.

## Contrast Mode

Use this function to choose between 2 Contrast Mode settings. Set to **DYNAMIC** for darker images more in the level of Black, set to **NORMAL** for a balanced White to Black level.

## Noise Reduction

The **NOISE REDUCTION** function automatically reduces conspicuous noise in the picture without degrading picture quality. Set **NOISE REDUCTION** to **OFF** if the TV experiences picture blocking.

## Cross Color NR

When set to **ON**, the **Cross Color NR** (Noise Reduction) function automatically reduces cross color noise in the picture.

## MPEG NR

The **MPEG NR** (Noise Reduction) function automatically reduces mosquito noise in the picture without degrading picture quality. Set **MPEG NR** to **OFF** if the TV experiences picture block noise.

## Auto Movie Mode

Select the **AUTO MOVIE MODE** function to choose between Original (3:2 pulldown) detection or Smooth Motion feature. Theatrical movies are shot on film at 24 frames or still pictures per second, instead of 30 frames or 60 fields like video. When film is transferred to video for television viewing, the disparity between the two frame rates must be reconciled. This involves a process known as 3:2 pulldown. When **AUTO MOVIE MODE** is set to **ORIGINAL** your Hitachi Plasma Television will activate the circuitry for this special feature to improve video performance when watching 480i format film based sources. Set **AUTO MOVIE MODE** to **SMOOTH** option to make a smooth and beautiful picture by state of the art interpolation processing technology when watching any film format based sources. Set to **OFF** to deactivate this feature.

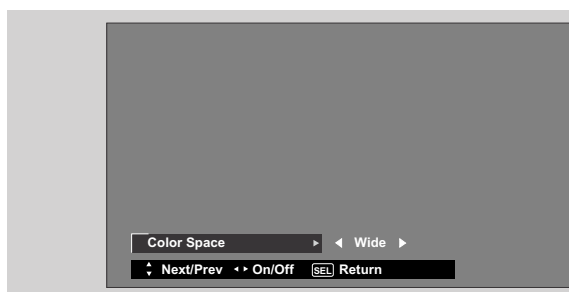
## Game Mode

Set to **ON** while playing video games on your Hitachi Plasma Television set. This function improves the response between the TV screen and the game controller that the player operates.

## Color Space

The **COLOR SPACE** function allows you to set between two color modes for HDTV standard. Select **WIDE** for High Fidelity (brighter) colors or **STANDARD** for faithful (normal) colors to the signal standard.

1. Use **CURSOR PAD** ◀ or ▶ to select **WIDE** or **STANDARD** color option.
2. Press **EXIT** to quit menu or select **COLOR SPACE** to return to the previous menu.



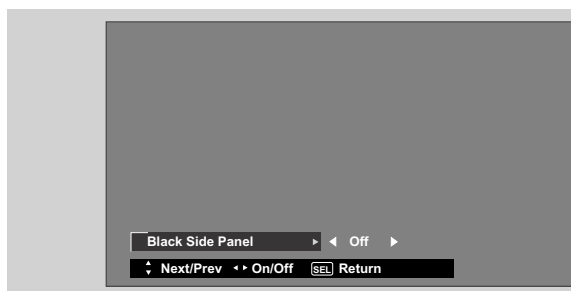


## Video

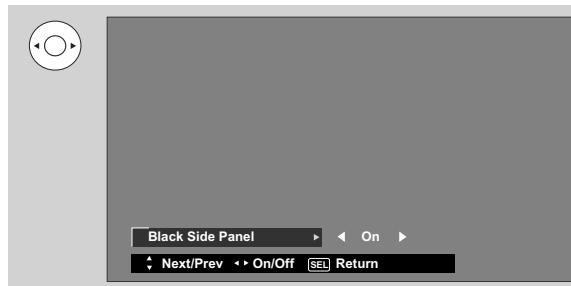
### Black Side Panel

The **BLACK SIDE PANEL** function turns the gray side bars from gray to black when watching 4:3 signals in Standard mode.

1. Press the **CURSOR PAD** ◀ or ▶ to set to ON or OFF.



2. Press **EXIT** to quit menu or select **SET BLACK SIDE PANEL** to return to the previous menu.



**NOTE:** 1. To prevent screen damage when watching 4:3 signal, turn off the **BLACK SIDE PANEL**. It is recommended to watch 4:3 signal with gray side bar.  
2. This setting return to Off automatically after TV power Off/On.

### Aspect

Use this function to select the Picture Format Aspect Ratio.

#### Auto Aspect

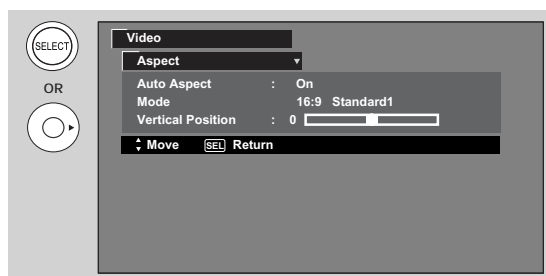
Automatically adjust the Aspect Ratio depending on the input signal to fill the screen.

#### Mode

Manually select the Aspect Ratio.

#### Vertical Position

This function allows you to select when aspect style is either 4:3 EXPANDED/ZOOM1/ZOOM2 or 16:9 ZOOM. Vertical position can be changed with these modes. For example, it will be useful for centering the picture area at both the top and bottom of the picture with 480i/480p signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video is toward top of screen).



1. Use the **CURSOR PAD** ▲ or ▼ to to select menu item.
2. Press the **CURSOR PAD** ◀ or ▶ to adjust the function.
3. Press the **EXIT** to quit the **MENU**, or select **ASPECT** to return to the main menu.

**NOTE:** 1. Vertical Position will not be available in 4:3 Standard and 16:9 Standard modes.  
2. Vertical Position setting returns to "0" automatically after TV power Off/On.

# Video

## Reset Video Settings

This function allows you to Reset the Video Menu Settings of the present input and return it to the Day-Dynamic VIDEO mode and also let you view the special Auto Movie Mode feature Smooth Motion Demo in both options SPLIT or SIDE by SIDE.

1. Use **CURSOR PAD ▲,▼** to highlight functions.
2. Press the **SELECT** button or **CURSOR PAD ►** to select Reset Video Settings.
3. Use the **CURSOR PAD ▼** to access at the Reset softkey.
4. Press the **SELECT** button to Reset the Video Settings.

You can customize each of the Video Inputs to your preference to increase viewing performance and pleasure, depending upon the video program being viewed. If **RESET** is selected, only the selected Input will reset to the initial conditions as explained above.

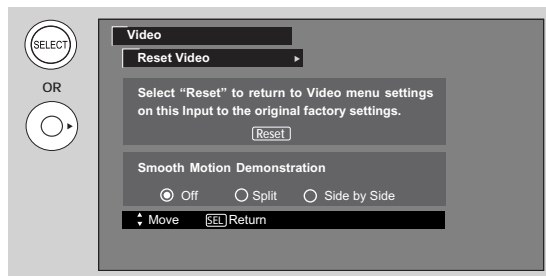
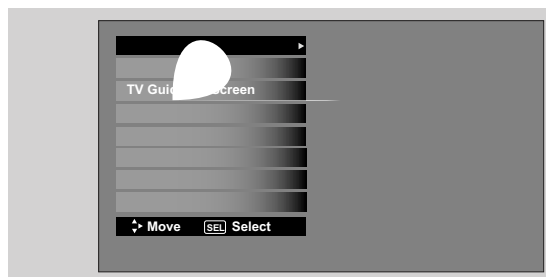
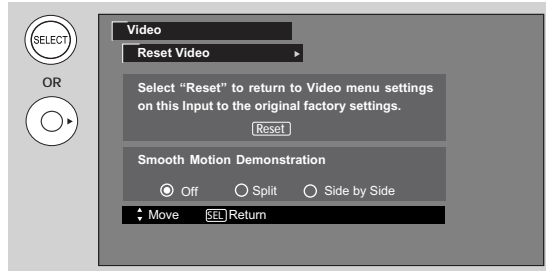
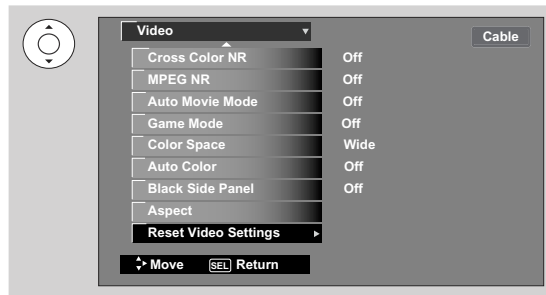
If **RESET** is selected in Input 1, only Input 1 will return to factory conditions.

## SMOOTH Mbtion Demonstration

This Hitachi new and exclusive state of the art feature makes an extremely smooth and beautiful picture by applying an advanced interpolation processing technology when detecting and receiving automatically film based source material.

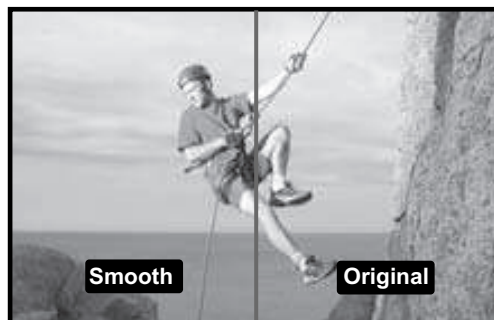
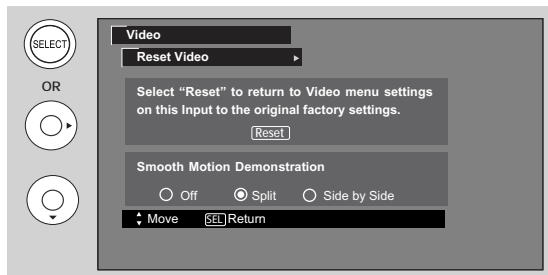
Since the advent of television there has been a mismatch between the motion of films in a movie theater to the way it appeared on television. Hitachi exclusive Smooth Motion film processing perfectly matches the motion of movies more accurately than ever before to let you experience not just watch your movies.

To view the Auto Movie Mode Smooth Motion Demonstration, go to the Video menu, then Select Reset The Video Settings feature. You can choose between two options, the **SPLIT** or **SIDE by SIDE** modes.



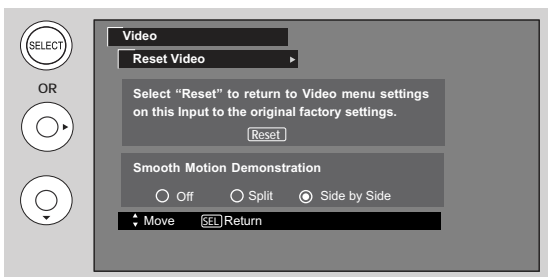
## SPLIT Mode Demonstration

Select the **SPLIT** mode to see a line splitting the picture by half, where the left half is with the Smooth Motion Demo turn on and the half in the right is with the Smooth Motion Demo turn off. You will see the difference when using Hitachi new feature Auto Movie Mode Smooth Motion in left half within the same picture when you watch a movie in your Hitachi Plasma Television.



## SIDE BY SIDE Mode Demonstration

Select the **SIDE BY SIDE** mode to see a line cutting the picture by half, where the left half is with the Smooth Motion Demo turn on and the half in the right is with the Smooth Motion Demo turn off. You will see the difference when using Hitachi new feature Auto Movie Mode Smooth Motion in left half within the same picture when you watch a movie in your Hitachi Plasma Television.



- NOTE:**
1. If you activate one of the two modes for **Smooth Motion Demonstration**, it will remain turn on until you deactivate it by selecting the **OFF** option.
  2. This feature effect will be only noticeable for any film based source material, like DVD, VCR movies, etc. and cannot be noticeable on Analog or Digital channel programs.
  3. After activating one of the two Demo modes, it will take about 15 seconds to view it.

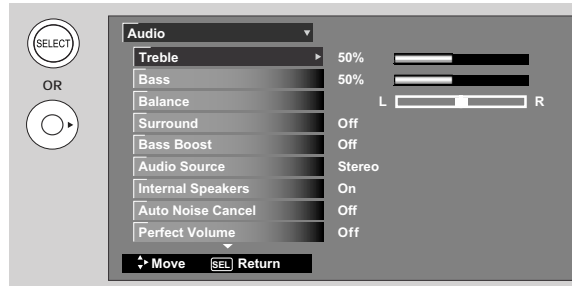
# Audio

## Audio

Select **AUDIO** to adjust the TV to your preference and to improve the sound quality.

1. Press **CURSOR PAD** ▲ or ▼ to select menu item.
2. Press **CURSOR PAD** ◀ or ▶ to adjust the function.
3. Press **EXIT** to quit the **MENU**, or select **AUDIO** to return to the main menu.

**NOTE:** If **TREBLE** is selected you are adjusting treble. The additional menu items **BASS** and **BALANCE** can be selected and adjusted in the same manner.



### Treble

This function controls the high frequency audio to all speakers.

### Bass

This function controls the low frequency audio to all speakers.

### Balance

This function will control the left to right balance of the Plasma TV internal speakers.

### Surround

Surround sound is the concept of expanding the spatial imaging of audio from one dimension ( Mono/Left-Right) to two or three dimensions. This is often done to create a more realistic audio environment.

- 1.- Use **CURSOR PAD** ▲ or ▼ to highlight surround option.
- 2.- Use **CURSOR PAD** ◀ or ▶ to select Off, Normal or Wide.

**Off** : turns off the surround sound effect.

**Normal Surround** : Provides the surround effect by locating two or more speakers to the rear of the listener.

**Wide Surround** : Reproduce much better quality 5 channel sound signals from ordinary stereo contents comparing with normal surround technology. Wide surround enable users to enjoy sound playback in wide surround virtual area like 5 channel contents with ordinary stereo contents.

### Bass Boost

This function allows to enhance the low frequency audio performance of your speaker system.



# Audio

## Audio Source

Multi-Channel Television Sound will allow you to select **STEREO** (a stereo broadcast), **MONO** (monaural sound) used when receiving a weak stereo broadcast or **SECOND AUDIO PROG** (SAP) which may be a secondary language, weather report, etc.

## Internal Speakers

This function is useful when setting up the external speakers.

ON	Select this feature if using the internal speakers only.
TV as Center	Select this feature when setting up external speakers from a separate stereo system. The TV's speakers will work as the center speaker.
OFF	Select this feature if you prefer to use only speakers from a separate stereo system.

## Auto Noise Cancel

This function eliminates the noise between stations. If a channel is tuned and is noisy, this function will automatically eliminate the audio for that channel.

## Perfect Volume

This function will automatically adjust volume so each channel and input has the same average volume level.

## Loudness

Set this function to ON to emphasize bass and treble at low volume levels.

## Language

Some programs transmit more than one DTV language option. Most will have English as a default language. The language function will allow you to select up to 4 language options (if available).

## Digital Output

This function allows you to select between Dolby® Digital and PCM. This setting is fed into Optical Output.



**Dolby® Digital** - Select this feature if the TV is connected to an amplifier/receiver with a Dolby-Digital only decoder; it will provide six independent soundtrack channels through the optical output jack (Digital Audio).

**NOTE:** \*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

**PCM** - Select this feature if the TV is connected to an amplifier/receiver with a PCM only decoder; it will provide two independent soundtrack channels through the optical output jack (Digital Audio).

## DRC

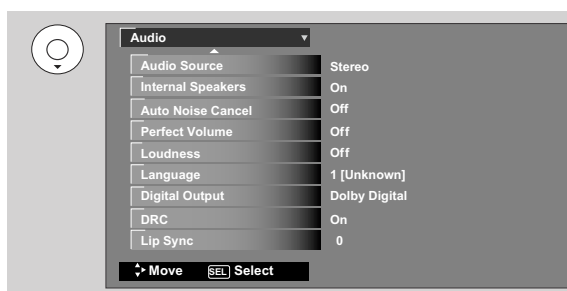
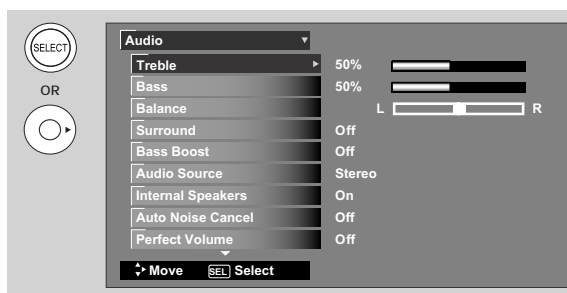
Dynamic Range Compression - Use this function to compress the range of sound volume. By compressing the range of sound volume, it is possible not only to suppress the output of loud sound at night but also to raise the volume of low sound. The default setting is ON.

Use the **CURSOR PAD** ◀ or ▶ to select the chosen options.

**NOTE:** The functions Language, Digital Output and DRC are only available when viewing digital programs.

Use the functions at right if your TV is connected to an amplifier/receiver with optical digital input with Dolby® Digital or PCM decoder capabilities.

**NOTE:** 1.- The DRC control affects only Dolby® Digital signals decoded internally by the TV.  
2.- DRC does not affect the Dolby Digital bitstream available at the digital audio output.



## Lip Sync

Selecting this feature will allow you to synchronize the audio with the picture signal on a digital or analog source. Use the **CURSOR PAD** ◀ or ▶ to synchronize the picture and the audio signal. The default value is set to 0.

# TV Guide On Screen

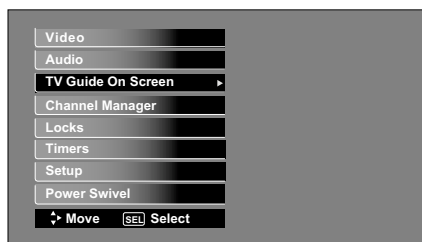
## TV Guide On Screen

The **TV Guide On Screen™** system is a built-in feature that provides a channel lineup and program listings in your area. Once the setup process is complete, the program listings are automatically updated several times a day.

If using a VCR, you must first setup the Plasma TV as shown on Page 25.

### To Setup the TV Guide On Screen™ System:

1. Press the **MENU** button. Use the **CURSOR PAD ▼** to highlight **TV Guide On Screen™**, then press the **SELECT** button.



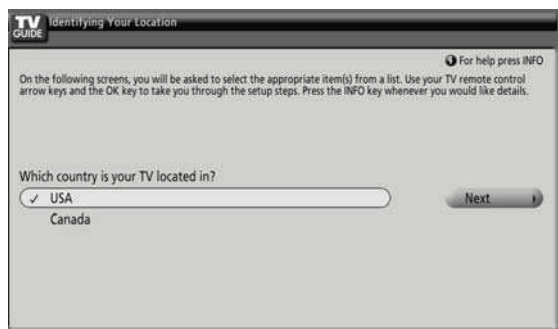
**Note:** Pressing the **GUIDE** button also allows you immediate access to this feature.

2. Press the **SELECT** button to continue.

### Setup Procedure:

#### Screen 1:

Select which country is your TV located in: Use the **CURSOR PAD ▲** and **▼** to highlight your TV location (USA or CANADA), then press the **SELECT** button to continue.



#### Screen 2:

Enter the zip code (USA) or postal code (Canada): Use the **Numeric buttons** and the **CURSOR PAD ▲** and **▼** for letter entries to enter the **ZIP code (USA)** or **postal code (CANADA)** of your location.



\*For USA is a 5 digit ZIP CODE  
\*\*For CANADA is a 6 digit ZIP CODE

#### Screen 3:

Please select which service(s) you would like your TV Guide On Screen™ to support (Check all that apply): Use the **CURSOR PAD ▲** and **▼** to highlight your choice, then press the **SELECT** button then select **Next** :

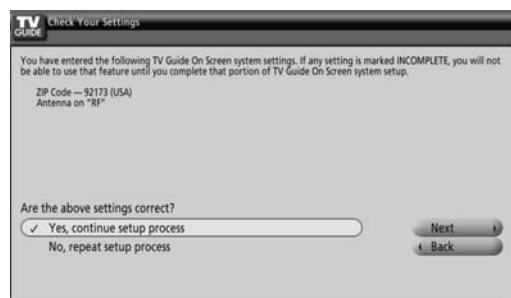


#### Screen 4:

Are the above settings correct ?

Use the **CURSOR PAD ▲** and **▼** to highlight your choice, then press the **SELECT** button then select **Next** :

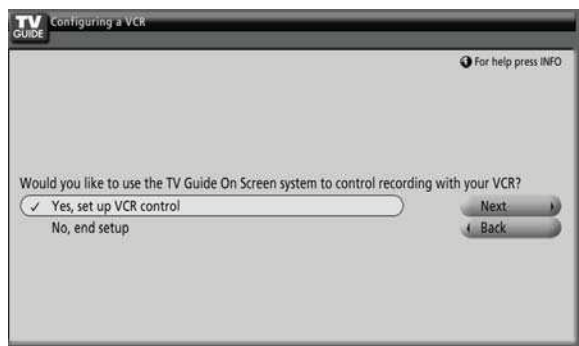
\*If all setting are correct please select Yes to continue.  
\*If a setting is wrong please select No to modify.



## TV Guide On Screen

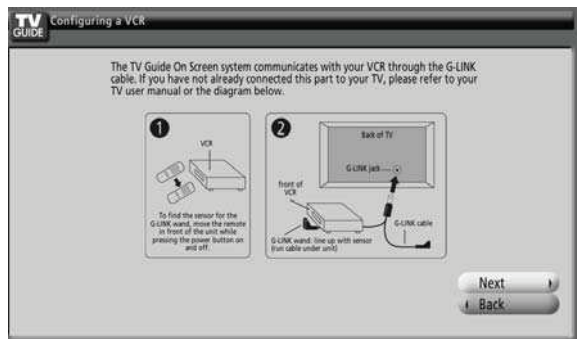
### Screen 5:

Would you like to use the TV Guide On Screen™ system to control recording with your VCR?  
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button then next.  
If YES: Please see Screen 6.  
If NO: Please see Screen 12.



### Screen 6:

The screen will show the correct way to setup the VCR with the G-LINK™. Please confirm the connections (see page 25). Press SELECT button to continue.



### Screen 7:

What brand of VCR is connected to this TV ?  
Use the CURSOR PAD ▲ and ▼ to highlight your choice, then press the SELECT button to continue.



### Screen 8:

This screen shows the steps that you need to follow to make the correct setup of your VCR with the G-LINK™. Please check your connection (see Page 25). Press the SELECT button to continue.



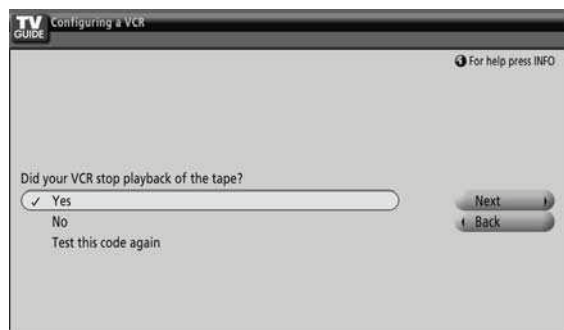
### Screen 9:

Now the TV GUIDE will send the code to control the VCR through the G-LINK™ connection.



### Screen 10:

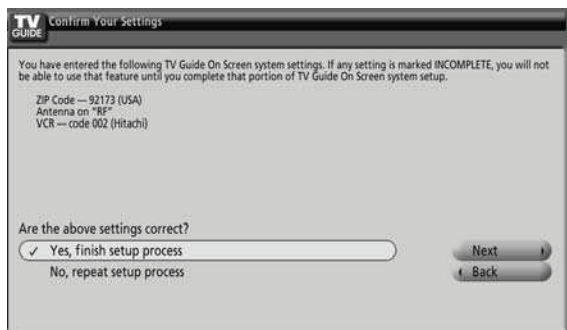
Did your VCR stop playback of the TAPE ?  
If Yes, then go to screen 11  
If No, the TV Guide On Screen™ system will try a different code and return to screen 9.  
If you like to Test this test code again one more time



## TV Guide On Screen

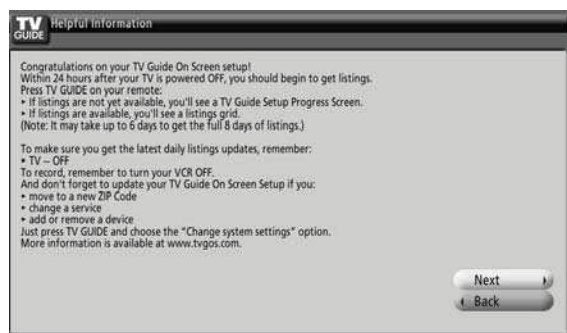
### Screen 11:

Are the settings correct ?  
If Yes the TV Guide On Screen™ setup is complete, then press SELECT button to continue.  
If No please make the necessary changes in order to complete the TV Guide On Screen™ setup procedure.



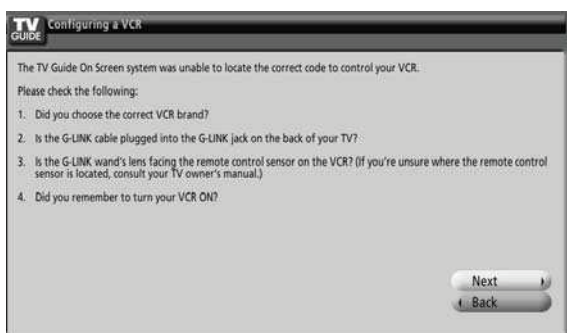
### Screen 12:

This shows that the setup procedure is complete  
Use the CURSOR PAD ▲ and ▼ to highlight Next or if you are like to make changes select Back ;  
Then press SELECT button to continue or finish.



### Screen 13:

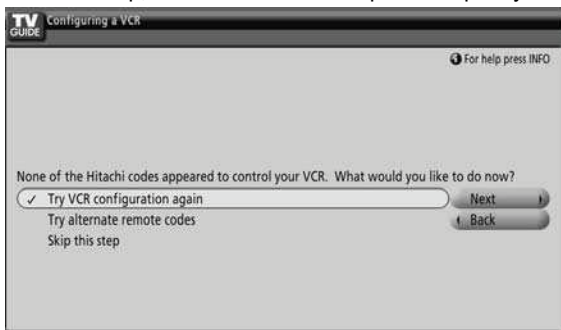
When a CODE for a VCR is not accepted then the following message will appear. Check the setup as mentioned then select Next.



### Screen 14:

None of the Hitachi codes appeared to control your VCR. What would you like to do now ?

- 1.- Try VCR configuration again to repeat the setup.
- 2.- Try alternate remote codes to see other code alternatives that may solve the problem.
- 3.- Skip this step, will finish the TV Guide On Screen™ setup; but will show an incomplete setup for your VCR.



**NOTE:** 1. The Plasma TV should be in standby mode in order to continually receive updated program listings.

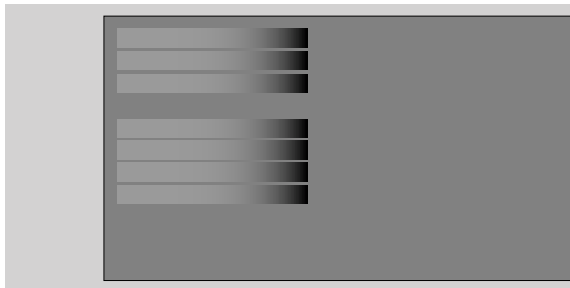
For using and navigating the TV Guide On Screen™ System please refer to the included TV Guide On Screen User Manual.

# Channel Manager

## Channel Manager

Select **CHANNEL MANAGER** to set your Antenna options, run Auto Channel Scan, Check Signal Meter and Set Channel List.

1. Press **CURSOR PAD ▲,▼** to highlight functions.
2. Press the **SELECT** button or **CURSOR PAD ►** to select.

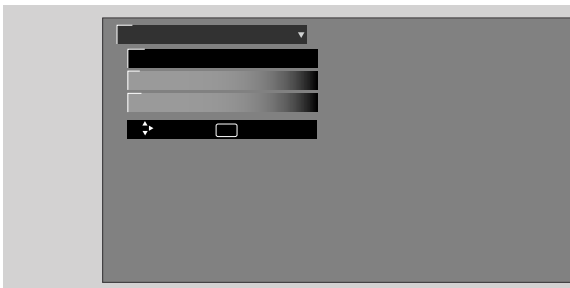


### Signal Meter

Select **SIGNAL METER** when using an indoor or outdoor antenna. This feature will show the signal strength and peak values of the Antenna signal to help you adjust your antenna to optimize signal reception.

Use the **CURSOR PADS** and the **SELECT** button to highlight and select **CLOSE** to exit.

**NOTE:** 1. The Signal Meter will not be available (grayed out) when watching analog channels.  
channels.



### Auto Channel Scan

This feature will automatically store active Analog and Digital channels in Auto Channel Scan memory.

1. Use the **CURSOR** buttons ◀ or ▶ to highlight **AIR**, **CABLE (1)** or **CABLE(2)** source.
2. Press the **CURSOR** buttons ◀ or ▶ to highlight the **START** or **RESET** option.
3. Press the **SELECT** button to select.

**NOTE:** 1. If certain channels are poor or not possible in cable(1) mode, set cable source to cable(2) by using the **CURSOR** buttons ◀ or ▶.

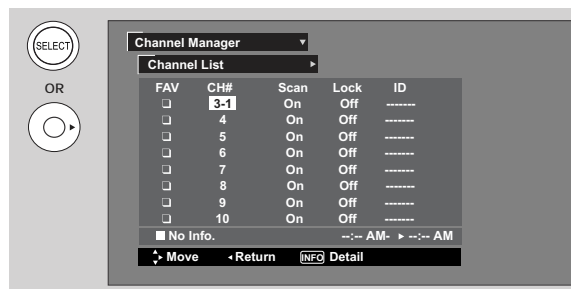
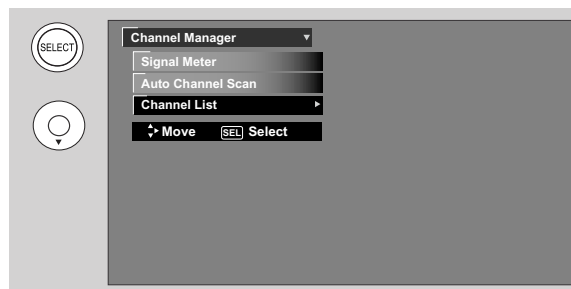


## Channel Manager

### Channel List

This function allows you to review which channels are labeled (ID), which have been added to **CHANNEL MEMORY (SCAN)**, which are protected by **LOCK** and which are your **FAVORITE (FAV) CHANNELS**.

1. Use the **CURSOR PAD** to navigate the Channel List.
2. Press the **SELECT** button to select **ON** or **OFF** on the **SCAN** and **LOCK** columns.
3. To select **LOCK** column, input the access code.  
(Default access code: 0000)
4. Press the **FAV** button to set or remove the **FAVORITE** settings.
5. Press the **EXIT** button to return to normal viewing.



**NOTE:** 1. The Channel List cannot be updated by only changing the cable source. Auto Channel Scan must be performed for the Channel List to be updated.

**Notice:** United States federal law requires broadcasters to stop transmitting analog (non-digital) television signals after February 17, 2009.

Accordingly, this TV's analog tuner will not be capable of receiving over-the-air analog television broadcasts after such analog broadcasts are no longer available.

After February 17, 2009, this TV's analog tuner will continue to work with compatible cable and satellite TV systems, gaming consoles, VCRs, DVD players and other similar products.

Both before and after February 17, 2009, this TV's digital tuner will receive available over-the-air digital television broadcasts using an antenna and other digital television broadcasts using compatible cable, satellite or other digital television system connections.

Please review this Owner's Guide for further information regarding such connections.

# Locks

## Locks

This function will block out the picture and sound of the selected channel or video input.

The code to enter the Locks feature is a four digit access code number. The factory preset code is **0000**. Use the **NUMBER** buttons to enter the access code.

1. Use the **CURSOR PAD** ▲, ▼ to highlight the desired function in the **LOCKS** menu.
2. Press the **SELECT** button to select.

### Change Access Code

1. To change the **ACCESS CODE NUMBER**, select **CHANGE ACCESS CODE** to change the factory preset code (**0000**) to your preference.

If you forget your **ACCESS CODE NUMBER**, use the factory code **7777** to erase your key number. This will reset the access code number back to the factory preset (**0000**).

2. Enter a new four digit number.
3. Press **EXIT** to quit the menu.

### Engage Lock

When **ENGAGE LOCK** is selected, **SET CHANNEL LOCK** and **SET FRONT PANEL LOCK** can be set individually.

When **SET CHANNEL LOCK** is turned on, the picture and sound for the chosen channel will be blocked out.

When **FRONT PANEL LOCK** is turned on, all buttons on the Front Panel will be deactivated, except the **POWER** button.

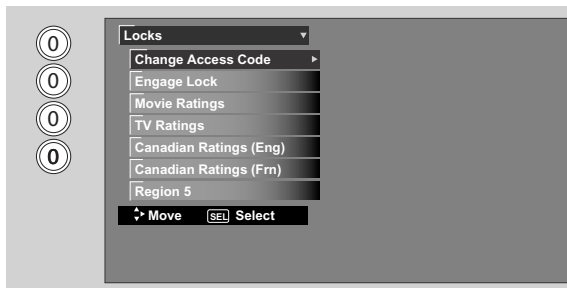
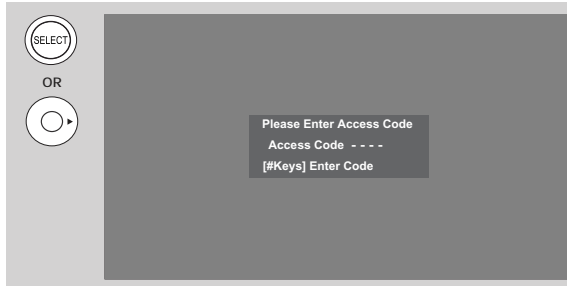
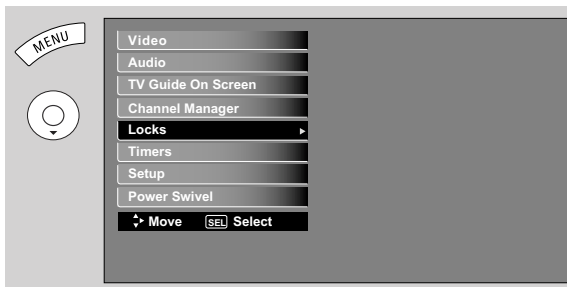
When **MOVIE RATINGS** is selected, you can block various types of movies and video tapes based on motion picture ratings (see page 60).

When **TV RATINGS** is selected, various types of television programming based on a parental guide ratings will be blocked (see page 61).

Use **CANADIAN RATINGS** to block various types of movies and television programs based on the two rating systems used in Canada that you feel may be inappropriate due to its content (see pages 62-63).

Use **REGION 5** to block various types of movies and television programs based on ratings systems used in U.S. that you feel may be inappropriate due to its content (see page 64).

**NOTE:** The **REGION 5** option will operate for Digital Channels only.

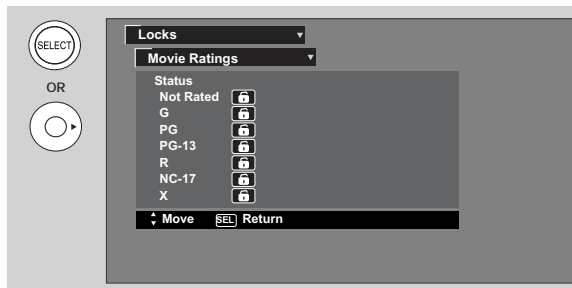
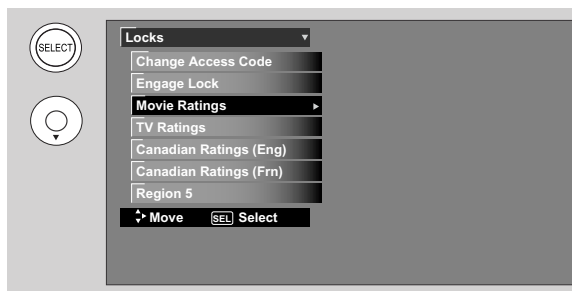


# Locks

## Movie Ratings

Use Movie Ratings to prevent viewing of any movie that you feel may be inappropriate due to its content.

1. Use the **CURSOR PAD** ▲, ▼ to select the **MOVIE RATING** category that you want to block.
2. Press **SELECT** to block the **MOVIE RATING** that you have selected. Once rating is selected, for example PG-13, all movies rated PG-13 and higher (R, NC-17, and X) will be blocked.
3. Press **EXIT** to quit the menu or select **MOVIE RATING** to return to the previous menu.



## Motion Picture Ratings Table

NOT RATED	Contains no rating. Not Rated (NR) and Not Applicable (NA) programs. Movie has not been rated or ratings do not apply.
G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only

**NOTE:** 1. A movie rating is dependent upon the movie that is viewed. If the movie does not carry a rating, the TV will not block it.  
 2. Blocking **NOT RATED** programs may block emergency programming, sports, news, public service announcements, religious programs and weather.

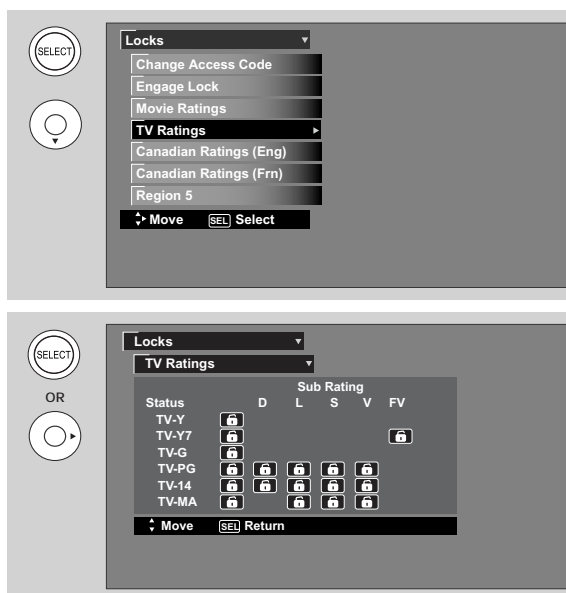


# Locks

## TV Ratings

Use **TV RATINGS** to prevent the viewing of any TV program that you feel may be inappropriate due to its content.

1. Use the **CURSOR PAD** ▲, ▼ to select the **TV RATING** category that you want to block.
2. Press **SELECT** to block the **TV RATING** that you have selected.
3. Press **EXIT** to quit the menu or select **TV RATING** to return to the previous menu.



## TV Parental Guide Ratings Table

TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogue.
TV-MA	Mature audiences only. This program may contain mature themes, indecent language, graphic violence, and explicit sexual content.
FV	Fantasy Violence
V	Violence
S	Sexual Situation
L	Adult Language
D	Sexually Suggestive Dialogue

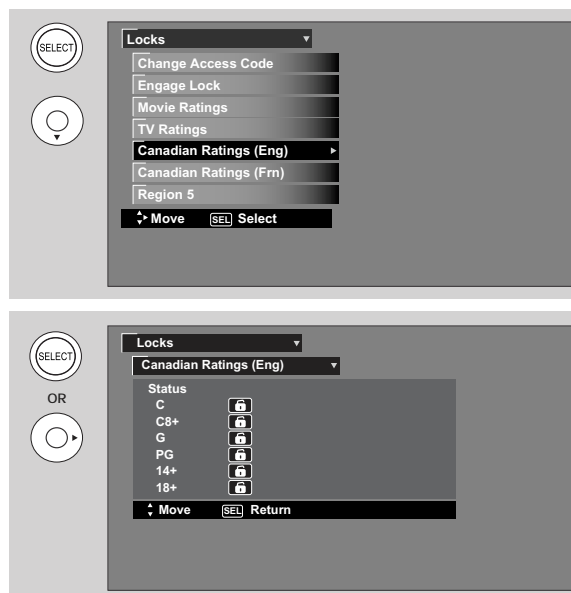
- NOTE:** 1. If you Block **TV-14D**, you will still permit **TV-MA** programs; If you block **TV-14V**, you will automatically block **TV-MAV** programs, but you will still permit **TV-MALS** programs. This means that the TV will block violence in **TV-14** and higher (**TV-MA**), but not language and sex.
2. TV program ratings are dependent on the broadcaster. If the program is not rated, the TV will not block it.

# Locks

## Canadian Ratings (Eng)

Use **CANADIAN RATINGS (ENG)** to block any type of movie and television program in Canada that you feel might be inappropriate in its content.

1. Use the **CURSOR PAD ▲, ▼** to select the **CANADIAN RATINGS (ENG)** category that you want to block.
2. Press **SELECT** to block the **CANADIAN RATINGS (ENG)** that you have selected. Once rating is selected, for example **C8+**, all movies and television programs rated **C8+** and higher (**G,PG, 14+** and **18+**) will be blocked automatically.
3. Press **EXIT** to quit the menu or select **CANADIAN RATINGS (ENG)** to return to the previous menu.



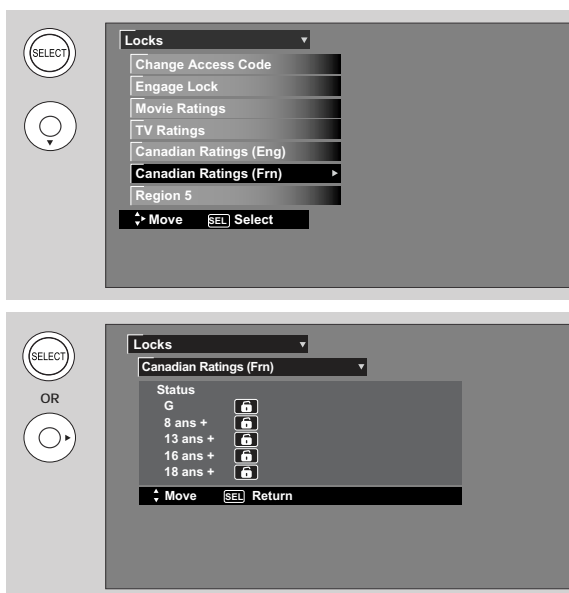
## Canadian Ratings English Table

C	Programming intended for children under age 8 - Violence Guidelines; Careful attention is paid to themes, which could threaten children's sense of security and well-being. There will be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own - Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict; or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.
G	General Audience - Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.
PG	Parental Guidance - Programming intended for a general audience but which may not be suitable for younger children. Parents may consider some content inappropriate for unsupervised viewing by children ages 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14 - Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.
18+	Adult - Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

## Canadian Ratings (Frn)

Use **CANADIAN RATINGS (FRN)** to block Canadian French programs according to various program ratings that you feel might be inappropriate in its content.

1. Use the **CURSOR PAD ▲, ▼** to select the **CANADIAN RATINGS (FRN)** category that you want to block.
2. Press **SELECT** to block the **CANADIAN RATINGS (FRN)** that you have selected. Once rating is selected, for example **8 ANS+**, all movies and television programs rated **8 ANS+** and higher will be blocked automatically.
3. Press **EXIT** to quit the menu or select **CANADIAN RATINGS (FRN)** to return to the previous menu.



## Canadian Ratings French Chart

G	General - Programming intended for audiences of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately with humor or caricature or in an unrealistic manner.
8 ans +	8 + General - Not recommended for young children - Programming intended for a broad audience but contains light or occasional violence that could disturb young children. Viewing with an adult is therefore recommended for young children (under the age of 8) who cannot differentiate between real and imaginary portrayals.
13 ans +	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Viewing with an adult is therefore strongly recommended for children under 13.
16 ans +	Programming is not suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ans +	Programming restricted to adults - Contains constant violence or scenes of extreme violence.

# Locks

## Region 5

Use **Region 5** Ratings to prevent viewing of any movie or program that you feel may be inappropriate due to its content. This feature will operate only for ATSC Digital signal.

In order to set the **Region 5** Ratings the ATSC Digital channel received must include **Region 5** Ratings data. To see if the channel has **Region 5** Ratings, press the INFO key on the R/C. See fig. (1) for reference. Once the TV has received **Region 5** Ratings data, the **Region 5** option in the lock menu will display the data.

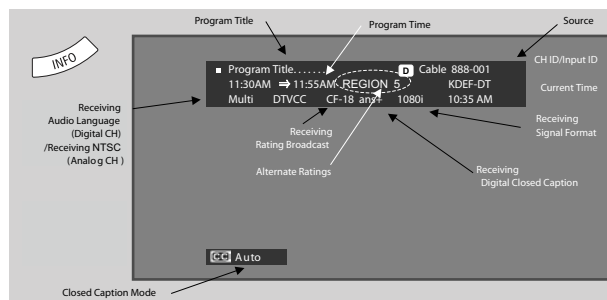
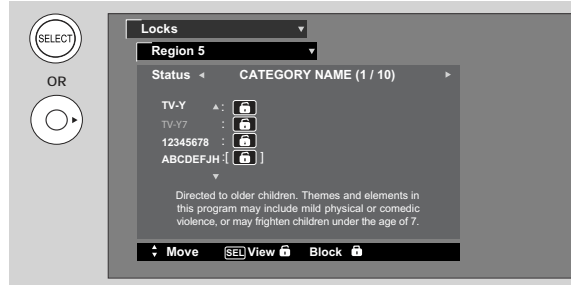
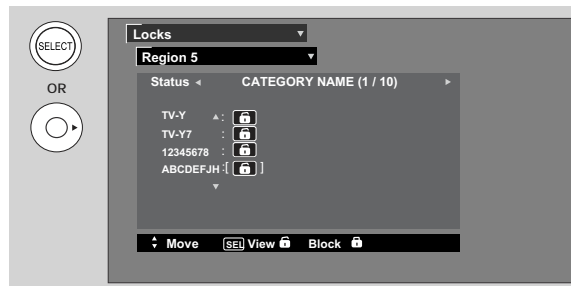
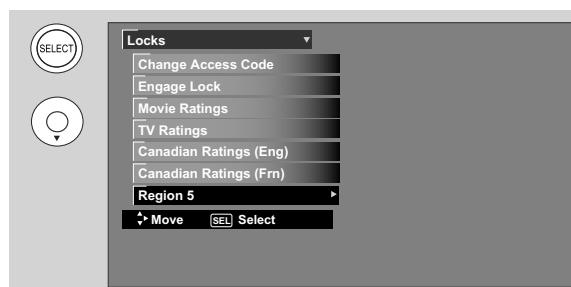


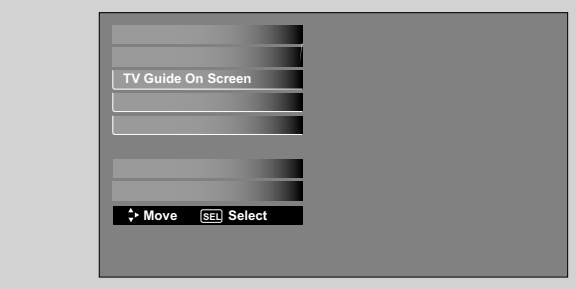
Fig. (1)

1. Use the **CURSOR** buttons ▼ or ▲ to select the **REGION 5** category that you want to block.
2. Press **SELECT** to block the **REGION 5** that you have selected. Once rating is selected, for example **PG-13**, all movies rated **PG-13** and higher (**R**, **NC-17** and **X**) will be blocked.
3. Press **EXIT** to quit the menu or select **REGION 5** to return to the previous menu.



### Alternate Ratings (Example Only) :

G	General audiences. All ages admitted.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires accompanying parent or adult guardian.
NC-17	No one 17 and under admitted.
X	Adults only
Y	Adults only



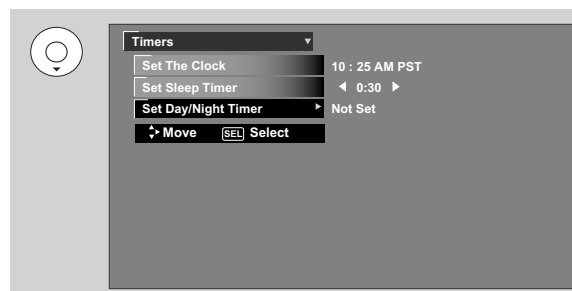
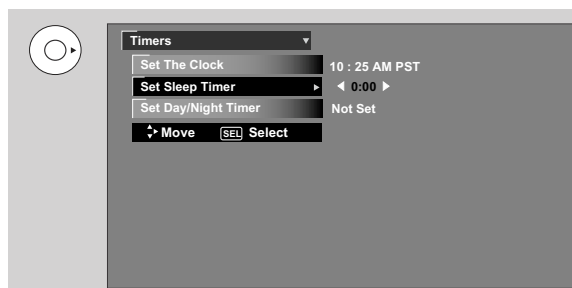
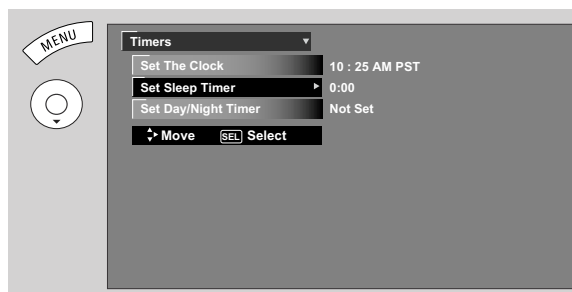
# Timers

## Set Sleep Timer

Select this feature to set your **SLEEP TIMER** from 30 minutes to 3 hours (30 minute increments).

1. Press the **CURSOR PAD** ► repeatedly to set your Timer from **0:00**, **0:30**, **1:00**, **1:30**, **2:00**, **2:30** and **3:00**.

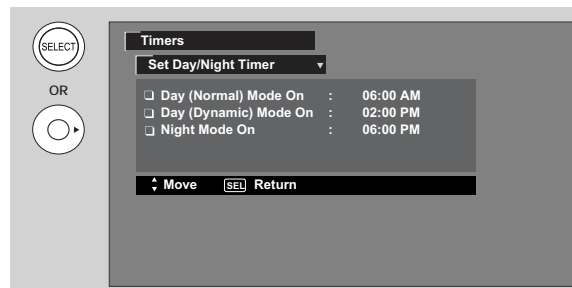
**NOTE:** The Sleep Timer info will show for 1 minute before the TV turns off.



## Set Day/Night Timer

Select this feature to activate and set your TV's **DAY/NIGHT PICTURE MODE** automatically. This feature is not available until the clock is set.

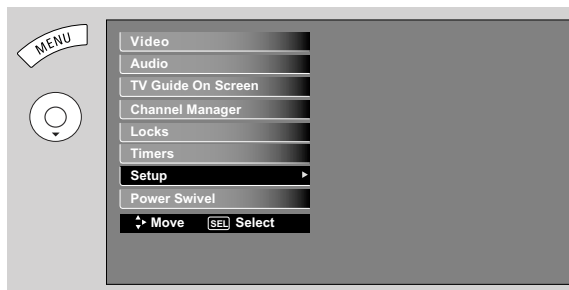
1. Use the **CURSOR PADS** to highlight **SET DAY/NIGHT TIMER** settings.
2. Press the **SELECT** button to select the option.
3. Use the **CURSOR PADS** to select **DAY NORMAL MODE ON** and to set it's **TIMER**.
4. Use the **CURSOR PADS** to select **DAY DYNAMIC MODE ON** and to set it's **TIMER**.
5. Use the **CURSOR PADS** to select **NIGHT MODE ON** and to set it's **TIMER**.
6. Press **EXIT** to quit the menu or select **SET DAY/NIGHT TIMER** to return to the previous menu.



## Setup

Select **SETUP** when setting your TV up for the first time.

1. Use the **CURSOR PAD** ▲ or ▼ to select the sub-menu of your choice.
2. Press the **SELECT** button to select.



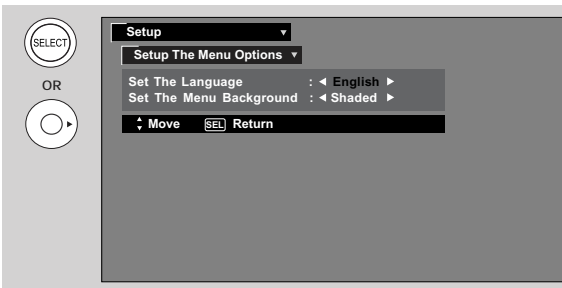
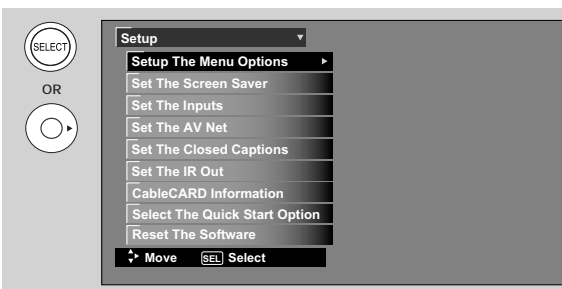
### Set The Menu Options

Setup the Language and background of the Menu OSD.

### Set The Language

This feature will allow you to select any one of three different languages for all on-screen displays.

1. Use the **CURSOR PAD** ◀ or ▶ to select the language of your choice.
2. Press **EXIT** to quit menu or select **SET THE MENU OPTIONS** to return to previous menu.



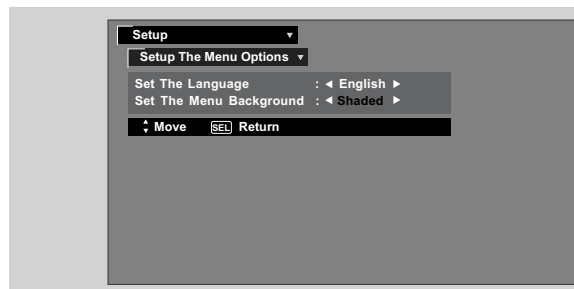
## Setup

### Set The Menu Background

This function allows you to choose from two menu backgrounds.

**SET THE MENU BACKGROUND (SHADED OR SOLID)** of your choice. Use the **CURSOR PAD** ◀ or ▶ to select shaded or solid.

2. Select **SOLID** for a black background (no picture can be seen behind menu screen), select **SHADED** and a light background is visible.
3. Press **EXIT** to quit menu or select **SET THE MENU OPTIONS** to return to the previous menu.



### Set The Screen Saver

Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to the Plasma Television. Use the **SCREEN SAVER** feature to hide screen burn.

1. Use **CURSOR PAD** ▲ or ▼ to highlight Screen Saver's Picture Orbiting and Image Power options.
2. Use the **CURSOR PAD** ◀ or ▶ to select your choices.

#### Option 1

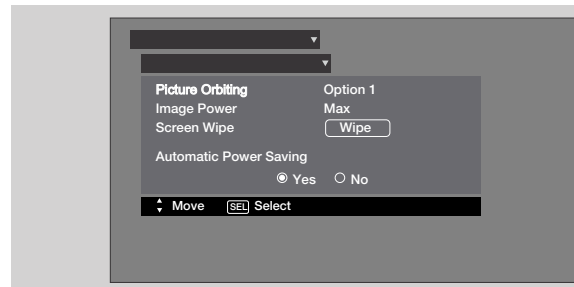
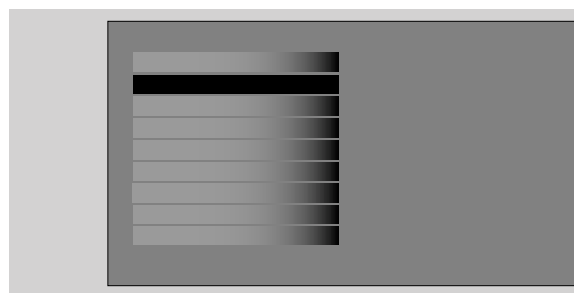
The whole picture will shift every 2 minutes by one pixel.

#### Option 2

The whole picture will shift every 10 minutes by one pixel.

#### Option 3

The whole picture will shift every 20 minutes by one pixel.



### Image Power

This function allows you to choose power consumption reduction based on 3 levels (min., medium and max).

### Screen Wipe

If pattern mark occurs, use Screen Wipe (White Field Signal) for at least 10 minutes to refresh any damage that may have occurred from a pattern mark. Screen Wipe can resolve pattern mark to a certain degree, if caution is not used, permanent damage may occur.

1. Use the **CURSOR PAD** ▲ or ▼ to highlight Screen Wipe.
2. Press the **SELECT** button to start.
3. Press the **EXIT** button to return to normal viewing.

### Automatic Power Saving

Use this feature to turn power off automatically when a video input signal is not detected for 15 seconds.



# Setup

## Set The Inputs

Use this feature to give a name to any of the seven video inputs.

1. Press the **CURSOR PAD ▲** or **▼** to highlight the video inputs.
2. Press the **CURSOR PAD ◀** or **▶** to select your choices.



## INPUT 3 Auto Link

Use this function to automatically turn the TV on and tune to INPUT 3 when it detects a video signal to INPUT 3.

1. Use the **CURSOR PAD ▲** or **▼** to highlight

between the Off and Auto settings.

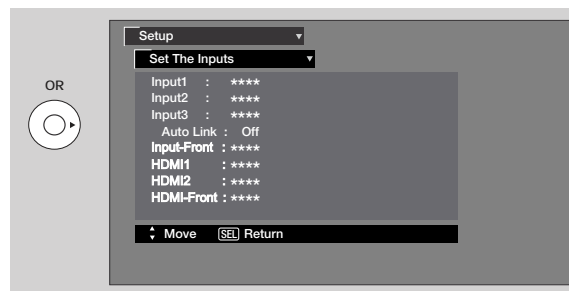
### - Auto

When **AUTO** is selected, the TV will turn on and switch to INPUT 3 automatically, when the INPUT 3 input device is turned on. This is convenient when you want to watch a movie with your VCR, laserdisc player or DVD player.

### - Off

Select OFF to disable this function.

2. Press **EXIT** to quit menu or select **SET THE INPUTS** to return to previous menu.



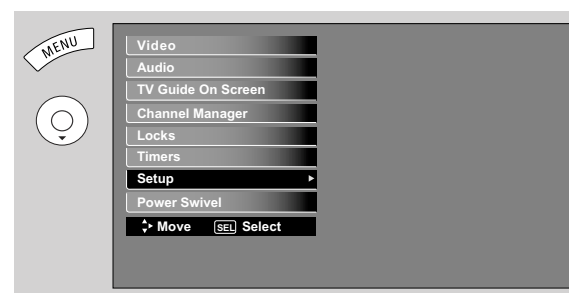
**NOTE:** 1. Once the TV has been turned on using the **AUTO LINK** feature, it must be reset before **AUTO LINK** is used again. To do this, turn your VCR, laserdisc, or DVD player OFF. This feature is now reset and will turn on your TV as described above.

2. If no remote control button is pressed after the TV is turned on by **AUTO LINK**, the TV will automatically turn off after three hours.

## Set AV Net

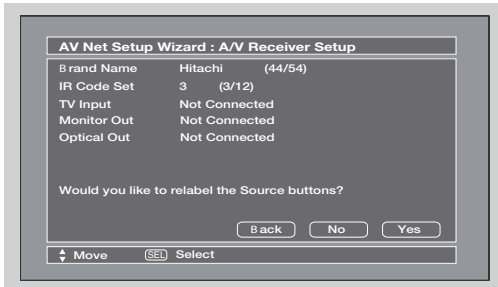
Use this feature to control your external Audio/Video equipment using your HITACHI Plasma TV Remote Control. The IR Blaster cable must be properly connected for the AV NET feature to work (see page 24).

1. Press the **MENU** button.
2. Use the **CURSOR PAD ▼** to highlight **SETUP** feature.
3. Press the **SELECT** button to select.
4. Use the **CURSOR PAD ▼** to highlight **SET AV NET** feature.
5. Press the **SELECT** button to select.





- If you would like to label your A/V Receiver Source, use the CURSOR PAD ◀ or ▶ to highlight " Yes " then press the SELECT button to continue. Selecting " No " will bypass the Source labeling.



- Use the CURSOR PAD ▲ or ▼ to select your A/V Receiver Sources.
- Use the CURSOR PAD ◀ or ▶ to label your A/V Receiver Sources.
- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- Confirm all settings, then press the SELECT button to move on to the next SETUP screen.



- Press SELECT to setup another device or use the CURSOR PAD ◀ or ▶ to highlight " No thanks, I'm done ", then press the SELECT button to exit the AV NET SETUP.

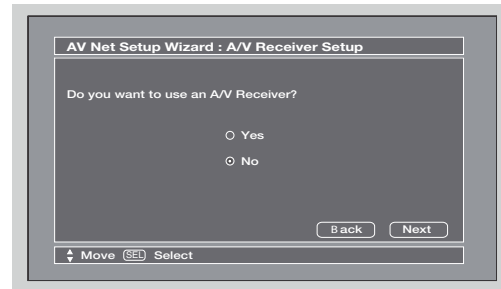


## AV NET SETUP WIZARD ( Example: DVD Setup )

- Press the SELECT button to start the SETUP WIZARD.



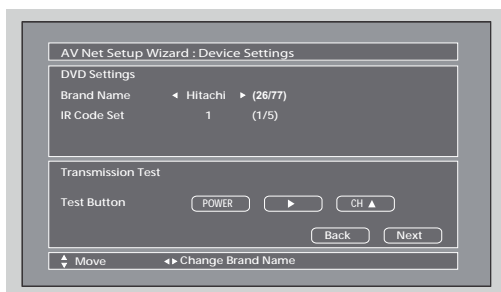
- Use the CURSOR PAD ▲ or ▼ to highlight NO.
- Press the SELECT button to select. (Select NO to setup other devices).
- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight the device. ( Example : DVD Setup ).
- Press the SELECT button to select.
- Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



8. Use the CURSOR PAD ◀ or ▶ to choose the brand name of your DVD.
9. Press the CURSOR PAD ▼ to highlight the IR CODE Set, then use the CURSOR PAD ◀ or ▶ to choose the preset IR Code.
10. Use the CURSOR PAD ▼ to highlight the "POWER" Test button.  
These On-screen buttons are called "Soft Keys".
11. Press the SELECT button to pass the Power command through the IR Blaster and onto the DVD.  
(Repeat steps 9 to 11 until finding the IR code that will power up the DVD. If the DVD turns ON, then you have found the correct preset IR code).
12. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



13. Use the CURSOR PAD ◀ or ▶ to select the TV Input that connects the DVD video output and then the TV input for the DVD audio output.
14. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



15. Confirm all settings, then press the SELECT button to move on to the next SETUP screen.



16. Press the SELECT button to select YES to Setup another device. Press the CURSOR PAD ◀ or ▶ to highlight "No thanks, I'm done", then press the SELECT button to exit the AV NET SETUP.



## Learning Mode

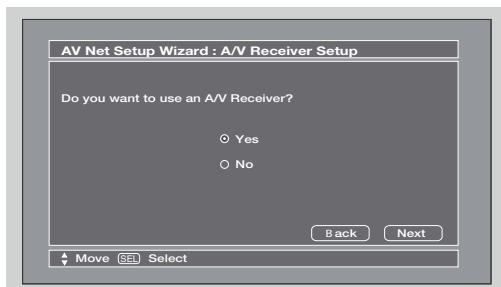
This function of the AV NET allows the user to use equipment that is not precoded in the AV NET codes. After programming your equipment to the AV NET and the Soft Keys do not work, you can manually "LEARN" each one by completing the Learning Mode. The Learning Mode will transfer any remote control button IR code of your equipment to the "Soft Keys" of your AV NET.

## Learning Mode (Example: AV Receiver Setup)

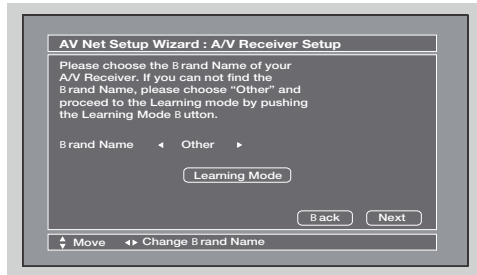
1. Press the SELECT button to start the SETUP WIZARD.



2. Use the CURSOR PAD ▲ or ▼ to highlight YES.
3. Press the SELECT button to select.
4. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



5. Use the CURSOR PAD ◀ or ▶ to select "Other" from brand name choices.
6. Use the CURSOR PAD ▲ or ▼ to highlight "Learning Mode" then press the SELECT button.



7. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to select the Soft Key to learn (Ex. VOL ▲), then press the SELECT button.



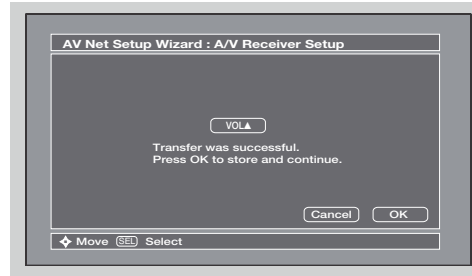
8. Press and hold the VOL ▲ button of your A/V Receiver remote control while pointing directly at the learning AV NET sensor of the Plasma TV (located at the lower right corner of the screen) at a distance of 3.2 feet or 1 meter maximum.



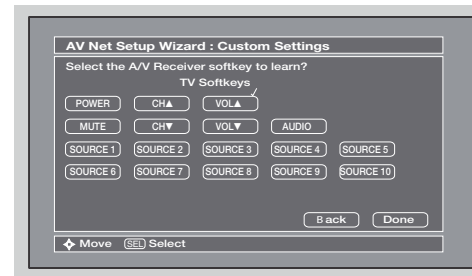
9. If the IR code transfer was not completed, the screen below appears. Repeat step 8 to try again.



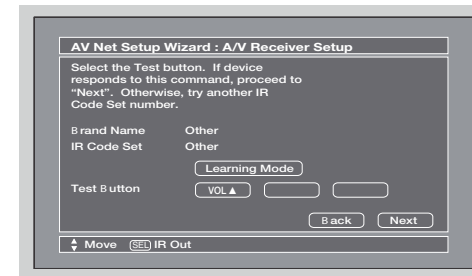
10. If the IR code transfer was successful, the screen below appears, then select "OK" to continue setup.



11. Select another Soft Key to learn or select DONE to move on to the next screen.



12. Select the Test button VOL ▲ to check the response of the device to this command. Test Buttons will show you first learned keys with a maximum of 3.
13. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



14. Use the CURSOR PAD ◀ or ▶ to select the TV Input that connects to the video and audio output of the A/V Receiver.
15. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

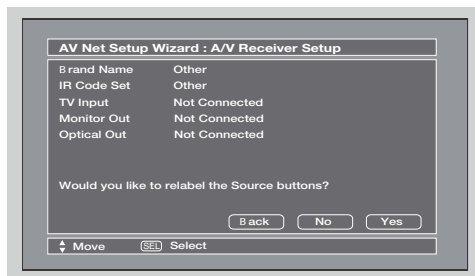


# Setup

16. Use the CURSOR PAD ◀ or ▶ to select the A/V Receiver Source if you have connected the Monitor Out and Optical Out to the A/V Receiver. Select "Not Connected" if not used.
17. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next step.



18. If you would like to label your A/V Receiver Source, use the CURSOR PAD ◀ or ▶ to highlight "Yes", then press the SELECT button to continue. Selecting "No" will bypass the Source Labeling.



19. Use the CURSOR PAD ▲ or ▼ to select your A/V Receiver Sources.
20. Use the CURSOR PAD ◀ or ▶ to label your A/V Receiver Sources.
21. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.



22. Confirm all settings, then press the SELECT button to move on to the next SETUP screen.



23. Select "YES" to setup another device or select "No, thanks, I'm done" to exit the AV Net setup.

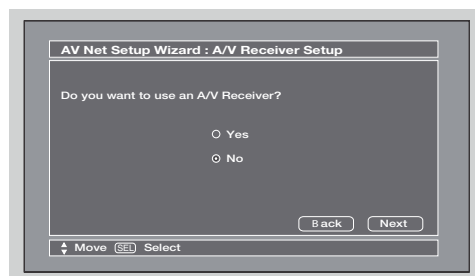


## Learning Mode (Example: CUSTOM/DVD 3 Setup)

1. Press the SELECT button to start the SETUP WIZARD.



2. Use the CURSOR PAD ▲ or ▼ to highlight NO.
3. Press the SELECT button to select "NO". (Select NO to setup other devices).
4. Use the CURSOR PAD ◀, ▶, ▲ and ▼ to highlight NEXT, then press the SELECT button to move on to the next SETUP screen.

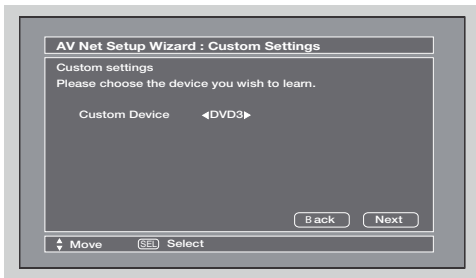


5. CURSOR PAD ◀, ▶, ▲ and ▼ to highlight "Custom", then press the SELECT button to select.
6. Select NEXT to continue.

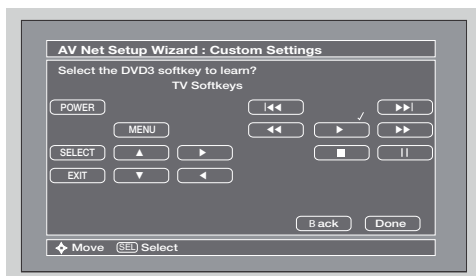


# Setup

7. Use the CURSOR PAD ◀ or ▶ to choose the device you wish to learn. (Example: DVD 3)
8. Select NEXT to continue.



9. Select the DVD 3 softkey to learn. (Example: PLAY ▶ button).
10. Select Done to continue.



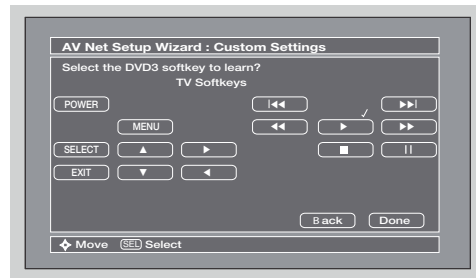
11. Press and hold the ▶ "Play button" of the DVD remote control while pointing directly at the learning AV NET sensor of the Plasma TV (located at the lower right corner of the screen) at a distance of 3.2 feet or 1 meter maximum.



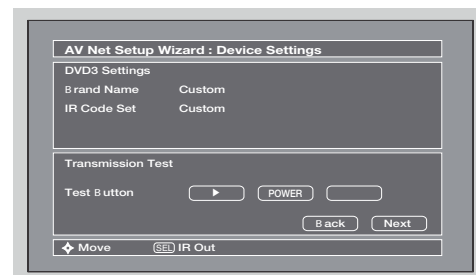
12. If the IR Code transfer was successful, the screen below appears, then select "OK" to continue setup.



13. Select another softkey to learn or select "DONE" to move on to the next screen.



14. Select the Test button ▶ "Play button" to check the response of the device to this command.



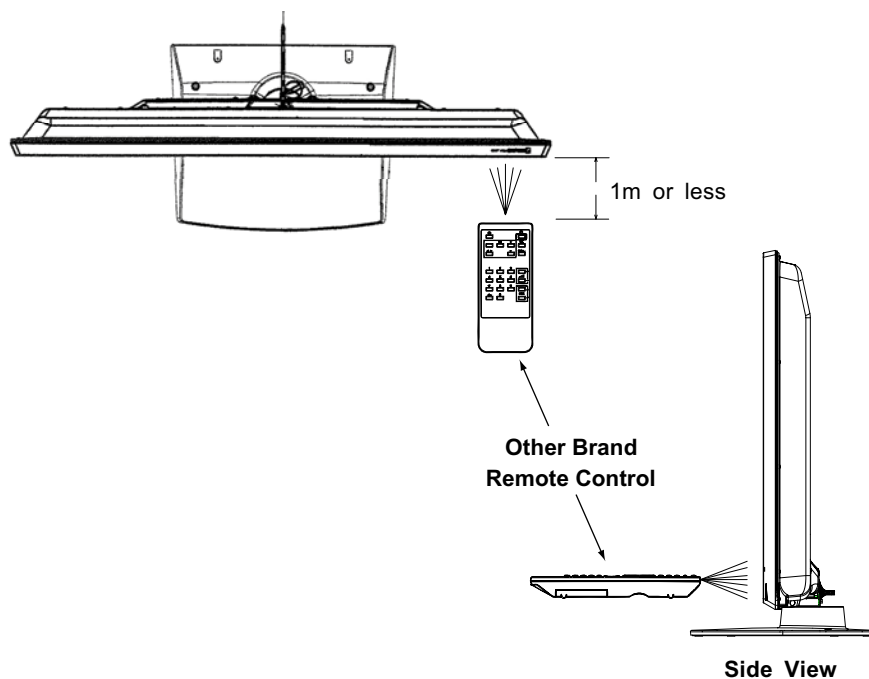
## Setup

19. Continue with the normal procedures to setup TV Input, Monitor Out, Optical Out and the labeling of the source buttons.
20. Select "YES" to setup another device or select "No thanks, I'm done" to exit the AV NET setup.




- NOTE :**
1. After a successful AV NET setup to a chosen TV Input, the user can access soft key controls by selecting the device in the inputs menu.
  2. Each Device and Custom setting only accepts one device at a time. The second device/custom setup will give the user the options to either modify or delete the device.
  3. Before changing or modifying the Video and Audio Inputs, both should be set to "Not Connected" to access available options.
  4. The device label will show on the Inputs menu until deleted or modified.
  5. The AV NET setup will have priority over the Input setup.
  6. For devices which have any or all of these functions, Play, Rewind, Fast Forward, Record, Stop and Pause, the Remote Control equivalent buttons may be used to perform these operations.
  7. When using learning mode, please operate remote control near AV Net IR sensor at TV front (see picture below).





### AV Net Learning Mode Distance Specification

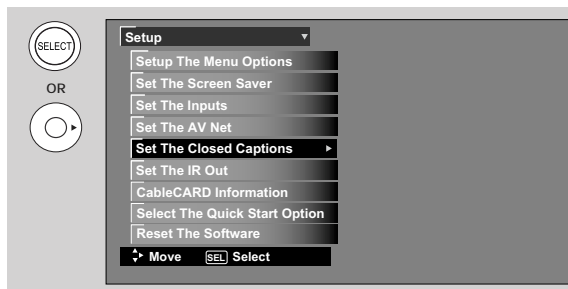




## Set The Closed Captions

Closed Captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as **CC** or .

1. Use the **CURSOR PAD** , ,  and  to highlight and select the function to change.
2. Press **EXIT** to quit menu or select **SET THE CLOSED CAPTIONS** to return to the previous menu.

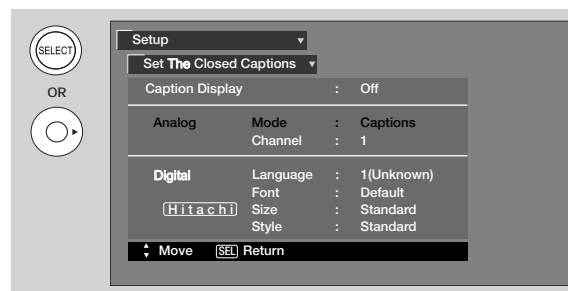


## Caption Display:

**ON/OFF** will turn the **CC** display on or off.  
**AUTO** will turn the **CC** display on when Mute/Soft Mute is on.

## Analog Captions:

Set **CAPTIONS** for Analog programs. This function will help choose and set available mode and channel.



## Caption Mode:

**CAPTIONS** is for the program you are viewing.





**TEXT** is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every **CC** program.

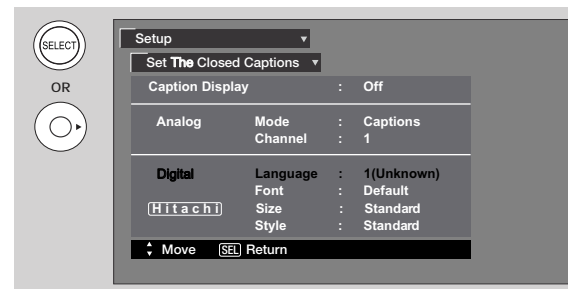
## Channel:

- 1 is used for the primary language (usually English).
- 2 is sometimes used for a second language (may vary by region).
- 3 is sometimes used for a third language (may vary by region).
- 4 is sometimes used for a fourth language (may vary by region).

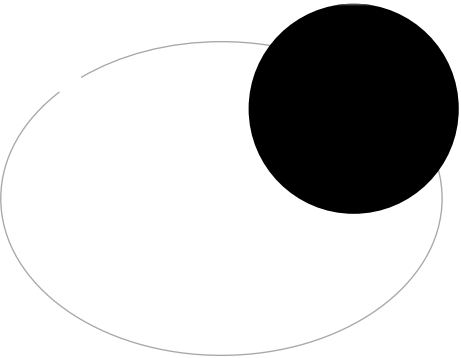
## Digital Captions

Set captions for digital programs. This function will help choose and set available language, font, size and style of digital captions.

1. Use the **CURSOR PAD** , ,  or  to highlight and select desired **DIGITAL CAPTIONS** feature.
2. Press **EXIT** to quit menu or select **SET CLOSED CAPTION** to return to the previous menu.



- NOTE:**
1. Some types of digital closed captions will not work with this TV.
  2. Caption Display will not work when viewing a 480p, 720p, or 1080i input via the **COMPONENT: Y-PbPr** inputs.
  3. Digital Captions Font Style are sometimes different from the Font Style of Analog Captions.
  4. Closed Caption and Digital Captions availability and content depends on the broadcaster. Closed Caption is available when Closed Caption icon is displayed on screen.
  5. Digital Captions language will not be available (grayed out) when using analog channels.



# Setup

## CableCARD Information

After the CableCARD has been successfully installed, you can access CableCARD Information menu in the SETUP menu of the On-Screen Display.

Follow the instructions below to access the CableCARD Information menu.

1. Press the **MENU** button on the Remote Control to access the Main Menu screen.
2. Use the **CURSOR PAD ▼** to highlight **SETUP** in the Main Menu and press the **SELECT** button.
3. Use the **CURSOR PAD ▼** to highlight **CableCARD Information** and press the **SELECT** button.
4. To view the CableCARD ID and Host ID, use the **CURSOR PAD ▼** to highlight **CableCARD Info** and press the **SELECT** button.

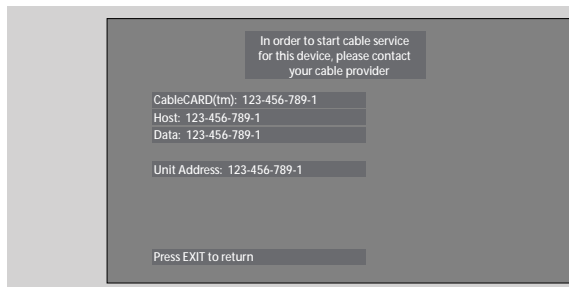
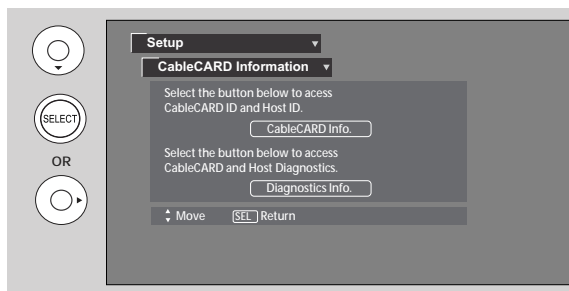
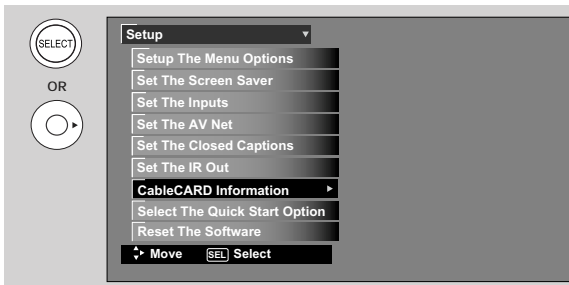
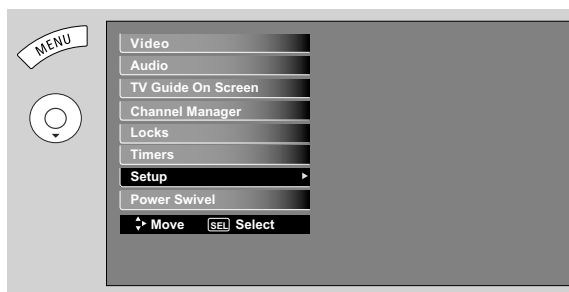
**NOTE:** The **Diagnostics Info.** window is for Service use only.

## THINGS TO CHECK WHEN USING THE CableCARD / CableCARD Services

1. Check that the CableCARD is properly inserted in the CableCARD slot.
2. Remove the CableCARD by pulling the CableCARD straight out.
3. Visually inspect the CableCARD to ensure all pin-holes are in good condition, with none blocked or damaged.
4. Make sure the CableCARD is re-inserted in the correct direction, then slowly push until it is fully seated in the slot.
5. When the CableCARD is installed, note all screen messages that appear ("CableCARD Installed", "Acquiring Data", "CableCARD is not Installed"). If the "CableCARD Installed" message does not appear when card is installed, check the TV's card slot and CableCARD pins for obstructions or damage.
6. If problems still remain, please contact your Cable Service Provider.

### NOTES:

1. When a CableCARD is installed, Auto Channel scan will not be needed because the channel list is automatically loaded to the TV's channel memory.
2. The TV will take several minutes to detect and recognize the presence of the CableCARD. This process must be completed before any CableCARD information or Channel listings is accessed.



## Setup

### Select The Quick Start Option

This feature will select **QUICK START UP** options. Set this feature to **ON** to have the TV tune channels (both Analog and Digital) quickly when first turning the TV on. Set this feature to **OFF** to save electricity. Selecting **ON** for the **QUICK START UP** feature will activate the TV tuners circuits when the TV is in "standby mode" which is commonly referred to as "off". This will allow you to quickly tune to channels when first turning the TV on. Digital signals often change and this feature will monitor any changes and prepare the television to quickly present a picture. A small amount of electricity is used to continually monitor signals when this feature is selected.

### Reset The Software

This feature shows software information and easy upgrade procedure. This function allows the TV software to be upgraded by using a flash card (**MMC/SD CARD**). If a future software upgrade is required for your TV, **HITACHI** will notify and provide you with a flash card. In order to receive written notification and the flash card, please complete and return the warranty card.

1. Insert **MMC/SD CARD**.
2. Press the **CURSOR PAD ▲** or **▼** to highlight **UPGRADE NOW**.
3. Press the **SELECT** button to select and start upgrading.
4. Unplug the AC power cord or press the **POWER** button for 5 seconds (P60X901 only) when the **UPGRADE** is complete.  
(Only P50X901 model: MAIN POWER button OFF/ON operation can also complete UPGRADE).

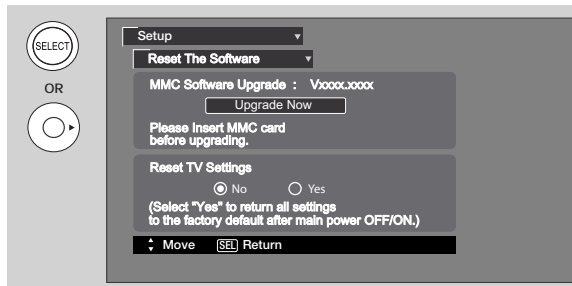
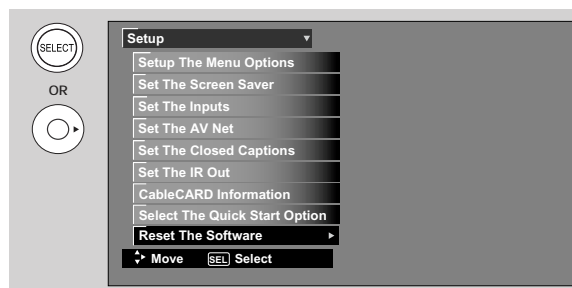
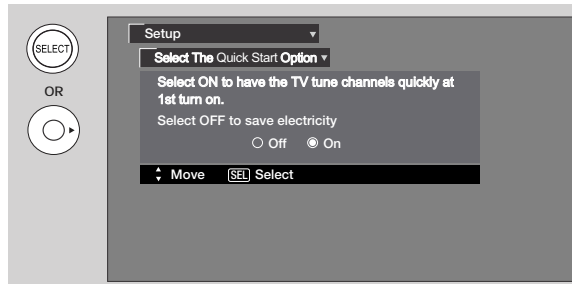
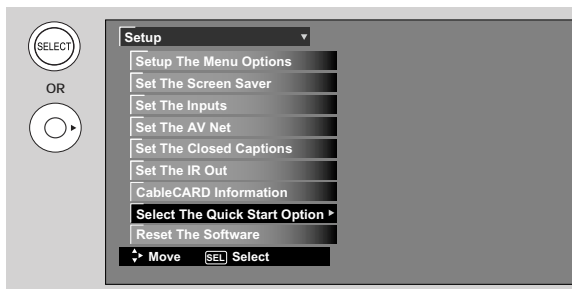
**NOTE:** Any power interruption during the upgrade process will cancel the upgrade. When this happens, repeat the upgrade procedure.

### Reset TV Settings

This function allows you to Reset all TV Settings to the original factory settings on all modes during the next main power off/on.

1. Use **CURSOR PAD ▲, ▼** to highlight functions.
2. Press the **SELECT** button or **CURSOR PAD ►** to select Reset the Software Menu.
3. Use the **CURSOR PAD ▼** to access the Reset TV settings option.
4. Select the **"YES"** option to Reset ALL the TV functions and unplug the AC cord or press the **POWER** button for 5 seconds.

**NOTE:** 1. If **YES** is selected, **ALL TV MENU SETTINGS** will be reset to the original factory settings on all modes when the AC cord is unplugged once or the **POWER** button is pressed for 5 seconds. **X9 1** on y .  
2. When the **Quick Start Option** has been set to **ON** or **TV Guide On Screen™** is configured, the option of Reset TV Settings will not operate unless the AC cord is unplugged once or the **POWER** button is pressed for 5 seconds. **X9 1** on y .  
3. (Only P50X901 model) MAIN POWER button OFF/ON operation can also enable this function.

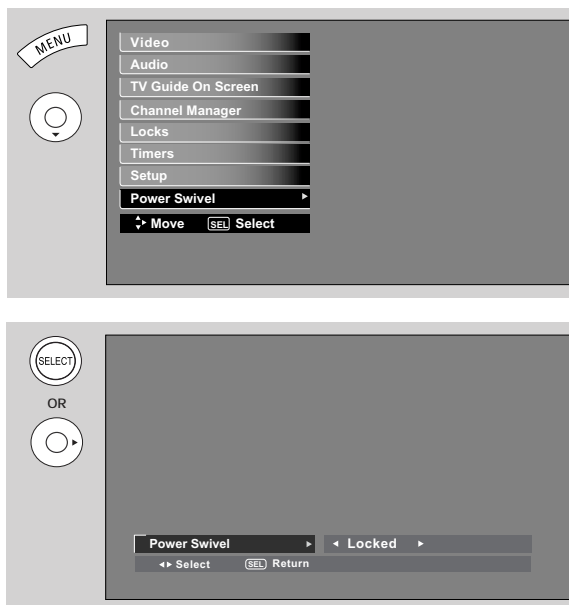


## Power Swivel

### Power Swivel

This feature controls the motorized stand. It allows the customer to turn the Plasma Television left or right using the remote control. This feature is only available when the Table Top Stand is connected (see page 6).

1. Use the **CURSOR PAD** ◀ or ▶ to unlock or lock the Power Swivel.  
Exit the OSD menu system before controlling the motorized stand.
2. Press the **CURSOR PAD** ▶ to rotate the TV to the right.
3. Press the **CURSOR PAD** ◀ to rotate the TV to the left.
4. Release the **CURSOR PAD** to stop rotation.



- NOTE:**
1. The Power Swivel has a maximum turning angle of 30° (left and right).
  2. Do not place any objects in the path of the plasma television when using the power swivel feature.
  3. Before using the power swivel, please make sure that the path of the plasma television is clear of any fingers, hands or any other body parts to avoid causing injury.
  4. The Power Swivel feature applies only for P50X901 model.



## Reception Problems



### IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



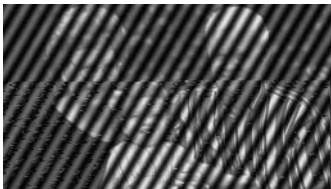
### GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.



### SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



### RADIO FREQUENCY INTERFERENCE:

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

#### • PREVENTION OF AN OBSTACLE TO RADIO RECEIVERS

This television has been designed pursuant to the FCC class B Rules. This is to prevent a problem to Radio receivers. If this television causes a problem to Radio receivers, then take the following steps:

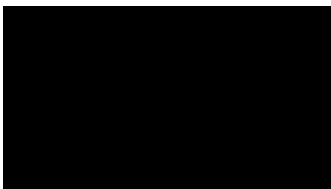
- Keep the television away from Radio.
- Adjust Radio antennas in order for the television not to receive interference.
- The antenna cable of Radio should be kept away from the television.
- Use a coaxial cable for antenna.

You can check if this television influences Radio receivers by turning off all other equipment other than the television. If you find a problem receiving Radio when using the television, check the instructions mentioned above.



### BLOCK NOISE (DIGITAL INPUT):

Fuzzy blocks may appear in some area or the whole area of the screen. This is usually caused by interference from automobile ignition systems, neon lamps, electrical drills, ghosting of the image and weak signals.



### BLACK SCREEN:

When using an antenna, weak signals will display a black screen. It may be necessary to upgrade your antenna.

**NOTE:** The TV set can generate sound distortion in external devices such as a radio. Please separate radio equipment from the TV set to a considerable distance.

### AGENCY REGULATORY INFORMATION

#### Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

#### FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

#### Modifications



The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi America, Ltd. Home Electronics Division may void the user's authority to operate the equipment.

#### Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

#### Note

This Plasma Television receiver will display television closed captioning, (  or  ), in accordance with paragraph 15.119 and 15.122 of the FCC rules.

### INDUSTRY CANADA AGENCY REGULATORY INFORMATION

Cable Compatible Television Apparatus- Télévision câblocompatible, Canada.



## Features:

- New 1080 Full HD Plasma Display Panel

- 
- 
- Surround Sound
- 
- 

- Power Swivel Table Top Stand (Only P50X901 model)
- Power Swivel cable (Only P50X901 model)

## Video:

- 1920 x 1080 Display Resolution
- ALiS (Alternate Lighting of Surfaces Technology)
- High-Contrast Pure-Color Glass Shield
- Wide Viewing Angle
- Color Temperature Presets: High, Standard, Medium and Black/White.
- Multiple Screen Fill Modes  
(4:3 Standard/4:3 Expanded/4:3 Zoom 1/  
4:3 Zoom 2/16:9 Standard1/Standard2/16:9 Zoom)<sup>1</sup>
- 4MB 10-bit 3D Y/C Comb Filter
- Picture Modes :Day(Normal), Day(Dynamic) and Night

## Inputs:

- Power Input .....AC 120V, 60Hz

- Antenna input impedance .....75 Ohm
- Channel coverage ..... 191ch.
- VHF-Band ..... 2 ~ 13
- UHF-Band ..... 14 ~ 69
- CATV Mid Band ..... A-5 ~ A-1
- ..... A-I
- Super Band ..... J-W
- Hyper Band ..... W+1 - W+28
- Ultra Band ..... W+29 - W+94
- Television System ..... NTSC Standard  
ATSC Standard (8 VSB, 64-QAM, 256-QAM)
- Video ..... 1.0Vp-p, 75 Ohm
- S-Video
- Luminance (Y) ..... 1.0Vp-p, 75 Ohm
- Chrominance (C) ..... 0.286Vp-p, 75 Ohm
- Component Video
- Luminance (Y) ..... 1.0Vp-p, 75 Ohm
- Chrominance (P<sub>B</sub>/

- Power Requirements ..... 108-132VAC, 60Hz

<sup>1</sup> Screen mode availability varies by input format

HDTV Televisions display HDTV only when an HDTV source is available.

All specifications, weights, and dimensions are subject to change without prior notice. Please access [www.hitachi.us/tv](http://www.hitachi.us/tv) for detailed specifications and dimensions for custom installations.

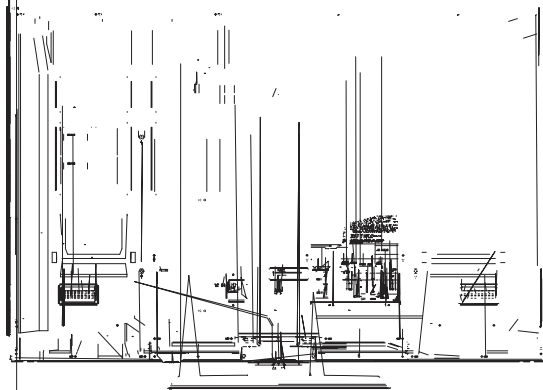
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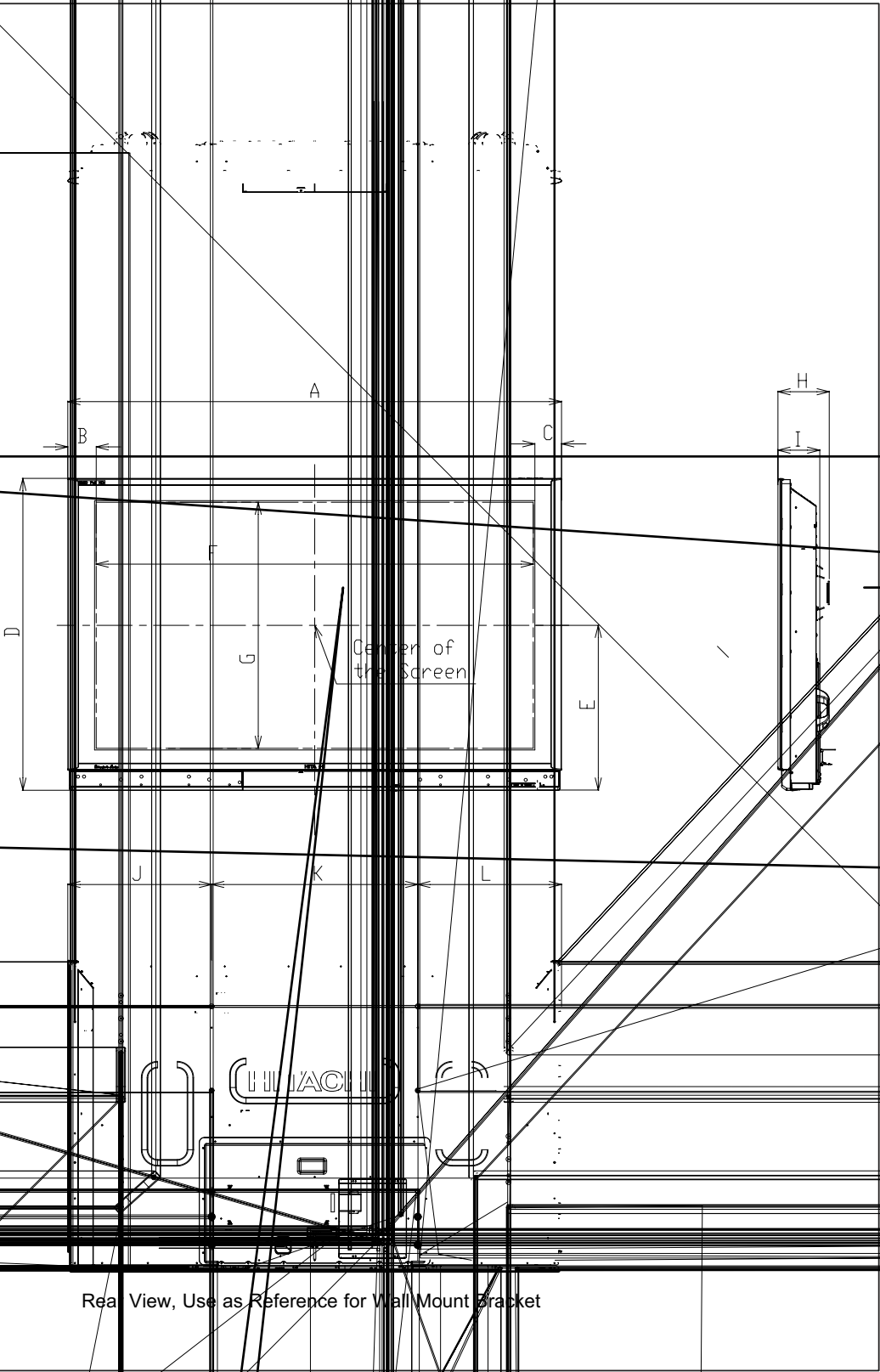
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# Set Dimensions

P60X901 model (Does not include Table Top Stand) Weight (lbs./kg): 161.9/73.5



Real View, Use as Reference for Wall Mount Bracket

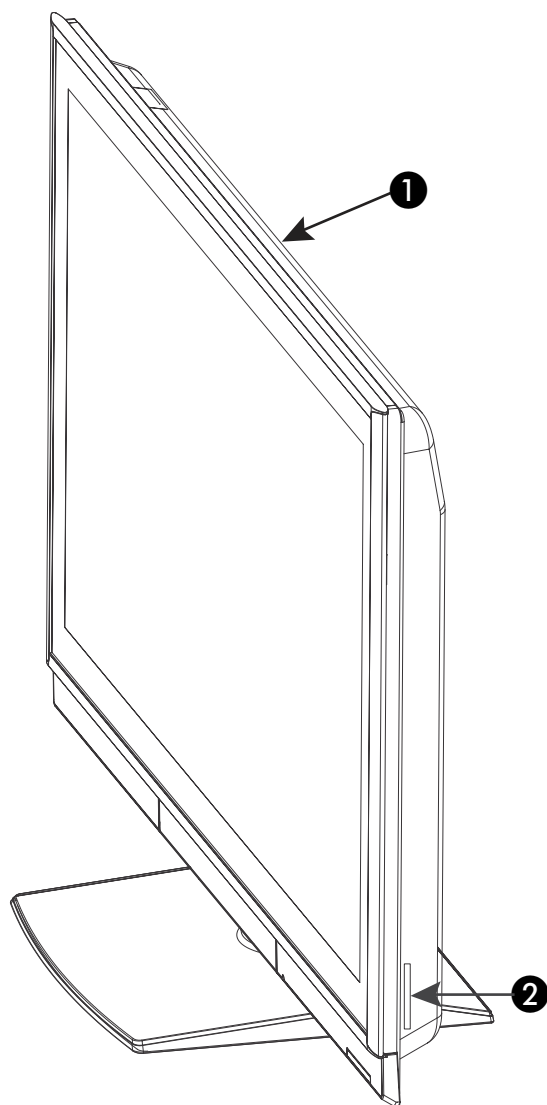
Units	A	B	C	D	E	F	G	H	I	J	K	L
Inches	68 8/16	3 1 1/16	3 11/16	43 4/16	22 14/16	60 10/16	34 2/16	7 2/16	5 13/16	19 15/16	28 10/16	19 15/16
mm	1509.00	81.50	81.50	953.20	504.20	1536.00	751.68	157.00	128.00	439.50	630.00	439.50



## Service Information

When you call HITACHI SERVICE HOTLINE they will require some information related to the TV MODEL NAME and SERIAL # in order to give you the proper support. This information is located on the back of the TV and also on the RIGHT SIDE of your TV set. Please follow the next steps to find this information and then provide to SERVICE.

- ❶ Look on the right side of the TV.
- ❷ Locate the LABEL where it shows the information related to MODEL NAME and SERIAL #.
- ❸ HITACHI Service Department will require this information in order to give you the proper support regarding your questions.





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That's all there is to it!

# Appendixes

## Appendix A:

### Picture Format for Each Input Source

#### Aspect Specifications

Yes : Selectable      - : Un-selectable

Input Signal			Auto Aspect	Aspect Video ID	Aspect						
					16:9 Standard 1	16:9 Standard 2	16:9 Zoom	4:3 Standard	4:3 Expanded	4:3 Zoom 1	4:3 Zoom 2
ANT Analog	Video	NTSC	-	4x3	Yes	-	Yes	Yes	Yes	Yes	Yes
ANT Digital	Y C <sub>B</sub> C <sub>R</sub>	480p	-	16x9	Yes	-	Yes	-	Yes	-	-
		480i	-	4x3	-	-	-	Yes	Yes	Yes	Yes
Input 1	Video S-Video	NTSC	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No ID	Yes	-	Yes	Yes	Yes	Yes	Yes
			Auto OFF	-	Yes	-	Yes	Yes	Yes	Yes	Yes
			-	-	-	-	-	-	-	-	-
Input 2	Y P <sub>B</sub> P <sub>R</sub>	1080i/720p	Auto ON	16x9	Yes	Yes	Yes	-	Yes	-	-
				16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No ID	Yes	-	Yes	Yes	Yes	Yes	Yes
			Auto OFF	-	-	-	-	-	-	-	-
	Video	NTSC	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No ID	Yes	-	Yes	Yes	Yes	Yes	Yes
			Auto OFF	-	Yes	-	Yes	Yes	Yes	Yes	Yes
			-	-	-	-	-	-	-	-	-
Input 3	Y P <sub>B</sub> P <sub>R</sub>	1080i/720p	Auto ON	16x9	Yes	Yes	Yes	-	Yes	-	-
				16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No ID	Yes	-	Yes	Yes	Yes	Yes	Yes
			Auto OFF	-	-	-	-	-	-	-	-
	Video	NTSC	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No ID	Yes	-	Yes	Yes	Yes	Yes	Yes
			Auto OFF	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-
Input Front	Video	NTSC	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No ID	Yes	-	Yes	Yes	Yes	Yes	Yes
			Auto OFF	-	-	-	-	-	-	-	-



Aspect Specifications  
(Continuation)

Input Signal			Auto Aspect	Aspect Video ID	Aspect						
					16:9 Standard 1	16:9 Standard 2	16:9 Zoom	4:3 Standard	4:3 Ex panded	4:3 Zoom 1	4:3 Zoom 2
HDMI 1  (Input1 -DVI)	HDMI (DVI)	1080p/ 1080i/720p	-	16x9	Yes	Yes	Yes	-	Yes	-	-
		480p 480i	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No Info	Yes	-	Yes	Yes	Yes	Yes	Yes
HDMI 2  (Input2 -DVI)	HDMI (DVI)	1080p/ 1080i/720p	-	16x9	Yes	Yes	Yes	-	Yes	-	-
		480p 480i	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-
				Letter	-	-	-	Yes	Yes	Yes Initial	Yes
				4x3	-	-	-	Yes	Yes Initial	Yes	Yes
				No Info	Yes	-	Yes	Yes	Yes	Yes	Yes
HDMI Front (InputFront	HDMI (DVI)	1080p/ 1080i/720p	-	16x9	Yes	Yes	Yes	-	Yes	-	-
		480p	Auto ON	16x9	Yes Initial	-	Yes	-	-	-	-

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